The Calendar

OF THE

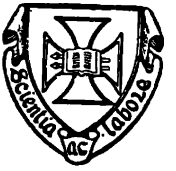
University of Queensland

PART II.

FOR THE YEAR

. . 1936 . .

NOTE.—Every Student should provide himself with the current issue of each part of the Calendar.



Editor: T. E. JONES, B.A.

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Price 2/

CHANGES IN CALENDAR, PART I.

PART II

TABLE OF CONTENTS.

CALENDAR

OF THE

UNIVERSITY OF QUEENSLAND.

(JANUARY) 1936–1937 (MARCH).

1936

Examination Period begins—Monday, 24th February.

First Term begins—Monday, 9th March.
Union Council meets—Thursday, 19th March.
Senate meets—Friday, 3rd April.
Easter Sunday—12th April.
Union Council meets—Thursday, 16th April.
Commemoration Day—Friday, 24th April.
Anzac Day—Saturday, 25th April.
Senate meets—Friday, 8th May.
Union Council meets—Thursday, 14th May.
Council of the University meets—Friday, 15th May.
Term ends—Saturday, 23rd May.

King's Birthday—Wednesday, 3rd June.

Second Term begins—Monday, 8th June.
Union Council meets—Thursday, 18th June.
Senate meets—Friday, 3rd July.
Council of the University meets—Friday, 10th July.
Union Council meets—Thursday, 16th July.
Senate meets—Friday, 7th August.
Term ends—Saturday, 8th August.

Third Term begins—Monday, 31st August.
Union Council meets—Thursday, 10th September.
Senate meets—Friday, 25th September.
Council of the University meets—Friday, 2nd October.
Union Council meets—Thursday, 8th October.
Senate meets—Friday, 30th October.
Term ends—Tuesday, 3rd November.

Examination Period begins—Friday, 6th November.

Senate meets—Friday, 11th December.

University closed from 19th December to 4th January, 1937.

1937.

Examination Period begins—Monday, 22nd February.

First Term begins—Monday, 8th March.

CLOSING DATES.

1936.

Matriculation (Supplementary and Adult) entries	9th January.
Theses—Fourth-year Agriculture	4th February.
Enrolments of External Students	15th February.
Archibald Scholarship	22nd February.
Theses—M.A. Degree	18th February.
Enrolments of Day and Evening Students	1st March.
First-term Fees	6th March.
Scholarship in Engineering	14th March.
Research Scholarship	14th March.
Travelling Scholarship	14th March.
Free Passages to Europe	14th March.
Late Enrolments	21st March.
Applications for Admission to Degrees	28th March.
Second-term Fees	6th June.
Morrow Prize	8th August.
Ford Memorial Medal	8th August.
Third-term Fees	29th August.
Examination Entries and Fees	29th August.
Rhodes Scholarship	30th September.
Raff Memorial Scholarship	31st October.
Kate McNaughton of Roma Scholarship	31st October.
Duncan McNaughton Scholarship	31st October.
Supplementary Degree Examination Entries	10th December.

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

January XXXI.

1	W		
2	Th		
3	F		
4	S		
5	**S**		
6	M	First Monday of Year.	1
7	T		
8	W	Last day for receipt of entries for Supplementary and Adult Matriculation Examinations to be held in February.	
9	Th		
10	F		
11	S		
12	**S**		
13	M	Second Monday of Year.	2
14	T		
15	W		
16	Th		
17	F		
18	S		
19	**S**		
20	M	Third Monday of Year.	3
21	T		
22	W		
23	Th		
24	F		
25	S		
26	**S**		
27	M	Fourth Monday of Year.	4
28	T		
29	W		
30	Th		
31	F		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

February, XXIX.

1	S		
2	**S**		
3	M	Fifth Monday of Year Faculty of Dentistry meets 4 p.m	5
4	T		
5	W		
6	Th		
7	F		
8	S		
9	**S**		
10	M	Sixth Monday of Year. Last day for receipt of Theses from Fourth-Year Students in Agriculture.	6
11	T		
12	W		
13	Th		
14	F		
15	S		
16	**S**		
17	M	Seventh Monday of Year. Supplementary Matriculation and Adult Matriculation Examinations Last day for enrolment of External Students.	7
18	T		
19	W		
20	Th		
21	F		
22	S		
23	**S**		
24	M	Eighth Monday of Year. **First Examination Period Begins.** Supplementary Degree Examination. Final Honours Examination. Last day for receipt of Essays for Archibald Scholarship. Last day for receipt of Theses from Candidates for M.A. Degree.	8
25	T		
26	W		
27	Th		
28	F		
29	S		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

March XXXI. 1936.

1	S	
2	M	Ninth Monday of Year. 9 Last day for enrolment of Day and Evening Students for 1936.
3	T	
4	W	
5	Th	
6	F	
7	S	Matriculation Ceremony, Main Hall, 10 a.m. First-term fees of all students to be paid on or before this date.
8	S	
9	M	Tenth Monday of Year. 10 **First Term Begins.** Faculty of Arts meets, 2 p.m. Faculty of Dentistry meets, 4 p.m.
10	T	Faculty of Commerce meets, 4 p.m.
11	W	Faculty of Science meets, 2 p.m.
12	Th	Faculty of Engineering meets, 2 p.m.
13	F	Faculty of Agriculture meets, 4 p.m.
14	S	Last day for receipt of applications for *Scholarship in Engineering, for *Scholarship for Encouragement of Original Research, for *Foundation Travelling Scholarship, and for Free Passages to Europe.
15	S	
16	M	Eleventh Monday of Year. 11 Music Advisory Board meets, 4 p.m.
17	T	
18	W	Board of Faculties meets, 2 p.m.
19	Th	Union Council meets, 7.30 p.m.
20	F	
21	S	Late applications for enrolment, or applications to alter courses already approved, will not be entertained after this date.
22	S	
23	M	Twelfth Monday of Year. 12 Combined Advisory Committee meets, 4.30 p.m.
24	T	Education Committee meets, 4 p.m.
25	W	Library Committee meets, 4 p.m.
26	Th	Buildings and Grounds Committee meets, 4 p.m.
27	F	
28	S	Last day for receipt of applications for admission to Degrees at Ceremony to be held on the 24th April,
29	S	
30	M	Thirteenth Monday of Year. 13 Administrative Committee meets, 3.30 p.m. Finance Committee meets, 4 p.m.
31	T	

Easter Sunday, 12th April, 1936.

* The award of these Scholarships in 1936 will be subject to the necessary funds being available therefor.

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

April XXX.

1	W	
2	Th	
3	F	Senate meets 4 p.m.
4	S	
5	**S**	
6	M	Fourteenth Monday of Year. **14**
7	T	
8	W	
9	Th	University closed from 5 p.m. to 9 a.m. on Tuesday, 14th.
10	F	Good Friday } University closed.
11	S	Easter Eve }
12	**S**	Easter Sunday.
13	M	Fifteenth Monday of Year. **15** Easter Monday.
14	T	Faculty of Arts meets, 2 p.m. Faculty of Commerce meets, 4 p.m. Faculty of Dentistry meets, at 4 p.m.
15	W	Faculty of Science meets, 2 p.m.
16	Th	Faculty of Engineering meets, 2 p.m. Union Council meets, 7.30 p.m.
17	F	Faculty of Agriculture meets, 4 p.m. Council of the University meets, 8 p.m.
18	S	
19	**S**	
20	M	Sixteenth Monday of Year. **16**
21	T	
22	W	Board of Faculties meets, 2 p.m.
23	Th	
24	F	Commemoration Ceremony.
25	S	Anzac Day.—University closed.
26	**S**	
27	M	Seventeenth Monday of Year. **17** Combined Advisory Committee meets, 4.30 p.m.
28	T	Education Committee meets, 4 p.m.
29	W	Library Committee meets, 4 p.m.
30	Th	Buildings and Grounds Committee meets, 4 p.m.

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1935.

May XXXI.

1	F		
2	S		
3	**S**		
4	M	Eighteenth Monday of Year. Administrative Committee meets, 3.30 p.m. Finance Committee meets, 4 p.m.	18
5	T		
6	W		
7	Th		
8	F	Senate meets, 4 p.m.	
9	S		
10	**S**		
11	M	Nineteenth Monday of Year.	19
12	T		
13	W		
14	Th	Union Council meets, 7.30 p.m.	
15	F		
16	S		
17	**S**		
18	M	Twentieth Monday of Year.	20
19	T		
20	W		
21	Th		
22	F		
23	S	**First Term Ends.**	
24	**S**		
25	M	Twenty-first Monday of Year.	21
26	T		
27	W	Vacation.	
28	Th		
29	F		
30	S		
31	**S**		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

June XXX.

1936.

1	M	Twenty-second Monday of Year.	22
2	T		
3	W	King's Birthday.	
4	Th	Vacation.	
5	F		
6	S	Fees for second term to be paid on or before this day.	
7	S		
8	M	Twenty-third Monday of Year.	23
		Second Term Begins.	
		Faculty of Arts meets, 2 p.m.	
		Faculty of Dentistry meets, 4 p.m.	
9	T	Faculty of Commerce meets, 4 p.m.	
10	W	Faculty of Science meets, 2 p.m.	
11	Th	Faculty of Engineering meets, 2 p.m.	
12	F	Faculty of Agriculture meets, 4 p.m.	
13	S		
14	S		
15	M	Twenty-fourth Monday of Year.	24
16	T		
17	W	Board of Faculties meets, 2 p.m.	
18	Th	Union Council meets, 7.30 p.m.	
19	F		
20	S		
21	S		
22	M	Twenty-fifth Monday of Year.	25
		Combined Advisory Committee meets, 4.30 p.m.	
23	T	Education Committee meets, 4 p.m.	
24	W	Library Committee meets, 4 p.m.	
25	Th	Buildings and Grounds Committee meets, 4 p.m.	
26	F		
27	S		
28	S		
29	M	Twenty-sixth Monday of Year.	26
		Administrative Committee meets, 3.30 p.m.	
		Finance Committee meets, 4 p.m.	
30	T		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

July XXXI.

1	W		
2	Th		
3	F	Senate meets, 4 p.m.	
4	S		
5	S		
6	M	Twenty-seventh Monday of Year.	27
7	T		
8	W		
9	Th		
10	F	Council of the University meets, 8 p.m.	
11	S		
12	S		
13	M	Twenty-eighth Monday of Year.	28
		Faculty of Arts meets, 2 p.m.	
		Music Advisory Board meets, 4 p.m.	
		Faculty of Dentistry meets, 4 p.m.	
14	T	Faculty of Commerce meets, 4 p.m.	
15	W	Faculty of Science meets, 2 p.m.	
16	Th	Faculty of Engineering meets, 2 p.m.	
		Union Council meets, 7.30 p.m.	
17	F	Faculty of Agriculture meets, 4 p.m.	
18	S		
19	S		
20	M	Twenty-ninth Monday of Year.	29
21	T		
22	W	Board of Faculties meets, 2 p.m.	
23	Th		
24	F		
25	S		
26	S		
27	M	Thirtieth Monday of Year.	30
28	T	Education Committee meets, 4 p.m.	
29	W	Library Committee meets, 4 p.m.	
30	Th	Buildings and Grounds Committee meets, 4 p.m.	
31	F		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

August XXXI.

1	S	
2	**S**	
3	M	Thirty-first Monday of Year. **31** Administrative Committee meets, 3.30 p.m. Finance Committee meets, 4 p.m.
4	T	
5	W	
6	Th	
7	F	Senate meets, 4 p.m.
8	S	**Second Term Ends.** Last day for receipt of Essays for Thomas Morrow Prize, and of competing poems for Ford Memorial Medal.
9	**S**	
10	M	Thirty-second Monday of Year. **32**
11	T	
12	W	Vacation.
13	Th	
14	F	
15	S	
16	**S**	
17	M	Thirty-third Monday of Year. **33** Brisbane Exhibition opens.
18	T	
19	W	Vacation.
20	Th	
21	F	
22	S	
23	**S**	
24	M	Thirty-fourth Monday of Year. **34**
25	T	
26	W	
27	Th	
28	F	Vacation.
29	S	Last day for receipt of entries for the Annual (Degree) Examination to be held in November, 1936, and for Final Honours Examination to be held in February, 1937. Combined fees for Term and examination to be paid on or before this date.
30	**S**	
31	M	Thirty-fifth Monday of the Year. **35** **Third Term Begins.** Faculty of Arts meets, 2 p.m. Faculty of Dentistry meets, 4 p.m.

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

September XXX.

1	T	Faculty of Commerce meets, 4 p.m.	
2	W	Faculty of Science meets, 2 p.m.	
3	Th	Faculty of Engineering meets, 2 p.m.	
4	F	Faculty of Agriculture meets, 4 p.m.	
5	S		
6	S		
7	M	Thirty-sixth Monday of Year.	36
8	T		
9	W	Board of Faculties meets, 2 p.m.	
10	Th	Union Council meets, 7.30 p.m.	
11	F		
12	S		
13	S		
14	M	Thirty-seventh Monday of Year.	37
15	T	Education Committee meets, 4 p.m.	
16	W	Library Committee meets, 4 p.m.	
17	Th	Buildings and Grounds Committee meets, 4 p.m.	
18	F		
19	S		
20	S		
21	M	Thirty-eighth Monday of Year.	38
		Administrative Committee meets, 3.30 p.m.	
		Finance Committee meets, 4 p.m.	
22	T		
23	W		
24	Th		
25	F	Senate meets, 4 p.m.	
26	S		
27	S		
28	M	Thirty-ninth Monday of Year.	39
29	T		
30	W	Last day for receipt of applications for Queensland Rhodes Scholarship for 1937.	

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

October XXXI.

1	Th		
2	F	Council of the University meets, 8 p.m.	
3	S		
4	**S**		
5	M	Fortieth Monday of Year.	**40**
		Faculty of Arts meets, 2 p.m.	
		Faculty of Dentistry meets, 4 p.m.	
6	T	Faculty of Commerce meets, 4 p.m.	
7	W	Faculty of Science meets, 2 p.m.	
8	Th	Faculty of Engineering meets, 2 p.m.	
		Union Council meets, 7.30 p.m.	
9	F	Faculty of Agriculture meets, 4 p.m.	
10	S		
11	**S**		
12	M	Forty-first Monday of Year.	**41**
13	T		
14	W	Board of Faculties meets, 2 p.m.	
15	Th		
16	F		
17	S		
18	**S**		
19	M		
		Forty-second Monday of Year.	**42**
		Combined Advisory Committee meets, 4.30 p.m.	
20	T	Education Committee meets, 4 p.m.	
21	W	Library Committee meets, 4 p.m.	
22	Th	Buildings and Grounds Committee meets, 4 p.m.	
23	F		
24	S		
25	**S**		
26	M	Forty-third Monday of Year.	**43**
		Administrative Committee meets, 3.30 p.m.	
		Finance Committee meets, 4 p.m.	
27	T		
28	W		
29	Th	Union Council meets, 7.30 p.m.	
30	F	Senate meets, 4 p.m.	
31	S	Last day for receipt of entries for Raff Memorial Scholarship.	
		Last day for receipt of applications for the Kate McNaughton of Roma Scholarship and Duncan McNaughton Scholarship.	

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

November XXX.

1	S		
2	M	Forty-fourth Monday of Year.	44
3	T	**Third Term Ends.**	
4	W		
5	Th		
6	F	**Second Examination Period Begins.**	
7	S		
8	S		
9	M	Forty-fifth Monday of Year.	45
10	T		
11	W		
12	Th		
13	F		
14	S		
15	S		
16	M	Forty-sixth Monday of Year.	46
		Music Advisory Board meets, 4 p.m.	
17	T		
18	W		
19	Th		
20	F		
21	S		
22	S		
23	M	Forty-seventh Monday of Year.	47
		Faculty of Dentistry meets, 4 p.m.	
24	T		
25	W		
26	Th		
27	F		
28	S		
29	S		
30	M	Forty-eighth Monday of Year.	48

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1936.

December XXXI.

1	T		
2	W		
3	Th		
4	F		
5	S		
6	S		
7	M	Forty-ninth Monday of Year. Administrative Committee meets, 3.30 p.m. Finance Committee meets, 4 p.m.	49
8	T		
9	W		
10	Th	Last day for receipt of entries for Supplementary Degree Examination to be held in February, 1937.	
11	F	Senate meets, 4 p.m.	
12	S		
13	S		
14	M	Fiftieth Monday of Year.	50
15	T		
16	W		
17	Th		
18	F		
19	S	University closed till 4th January, 1937.	
20	S		
21	M	Fifty-first Monday of Year.	51
22	T		
23	W		
24	Th		
25	F	Christmas Day	
26	S		
27	S		
28	M	Fifty-second Monday of Year.	52
29	T		
30	W		
31	Th		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1937.

January XXXI.

1	F		
2	S		
3	S		
4	M	First Monday of Year.	1
5	T		
6	W	Last day for receipt of entries for Supplementary and Adult Matriculation Examinations to be held in February.	
7	Th		
8	F		
9	S		
10	S		
11	M	Second Monday of Year.	2
12	T		
13	W		
14	Th		
15	F		
16	S		
17	S		
18	M	Third Monday of Year.	3
19	T		
20	W		
21	Th		
22	F		
23	S		
24	S		
25	M	Fourth Monday of Year.	4
26	T		
27	W		
28	Th		
29	F		
30	S		
31	S		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

1937.

February XXVIII.

1	M	**Fifth Monday of Year.** Faculty of Dentistry meets, 4 p.m.	5
2	T		
3	W		
4	Th		
5	F		
6	S		
7	**S**		
8	M	**Sixth Monday of Year.** Last day for receipt of Theses from Fourth-Year Students in Agriculture.	6
9	T		
10	W		
11	Th		
12	F		
13	S		
14	**S**		
15	M	**Seventh Monday of Year.** Supplementary Matriculation and Adult Matriculation Examinations. Last day for receipt of enrolments from External Students for 1937.	7
16	T		
17	W		
18	Th		
19	F		
20	S		
21	**S**		
22	M	**Eighth Monday of Year.** **First Examination Period Begins.** Supplementary Degree Examination. Final Honours Examination. Last day for receipt of Essays for Archibald Scholarship. Last day for receipt of Theses from Candidates for M.A. Degree.	8
23	T		
24	W		
25	Th		
26	F		
27	S		
28	**S**		

CALENDAR OF THE UNIVERSITY OF QUEENSLAND.

March XXXI. 1937.

1	M	Ninth Monday of Year.	9
		Last day for receipt of enrolments from Day and Evening Students for 1937.	
2	T		
3	W		
4	Th		
5	F		
6	S	Matriculation Ceremony, Main Hall, 10 a.m.	
		First-term fees of all students to be paid and duplicate deposit slips lodged at the Office on or before this date.	
7	S		
8	M	Tenth Monday of Year.	10
		First Term Begins.	
		Faculty of Arts meets, 2 p.m.	
		Faculty of Dentistry meets, 4 p.m.	
9	T	Faculty of Commerce meets, 4 p.m.	
10	W	Faculty of Science meets, 2 p.m.	
11	Th	Faculty of Engineering meets, 2 p.m.	
12	F	Faculty of Agriculture meets, 4 p.m.	
13	S	Last day for receipt of applications for *Scholarship in Engineering, and for *Scholarship for Encouragement of Original Research.	
		Last day for receipt of applications for *Foundation Travelling Scholarship, and for Free Passages to Europe.	
14	S		
15	M	Eleventh Monday of Year.	11
16	T		
17	W	Board of Faculties meets, 2 p.m.	
18	Th	Union Council meets, 7.30 p.m.	
19	F		
20	S	Late applications for enrolment, or applications to alter courses already approved, will not be entertained after this date.	
21	S		
22	M	Twelfth Monday of Year.	12
		Combined Advisory Committee meets, 4.30 p.m.	
23	T	Education Committee meets, 4 p.m.	
24	W	Library Committee meets, 4 p.m.	
25	Th	Buildings and Grounds Committee meets, 4 p.m.	
		University closed from 5 p.m. to 9 a.m. on Tuesday, 30th.	
26	F	Good Friday.	
27	S	Easter Eve.	
28	S	Easter Sunday.	
29	M	Thirteenth Monday of Year.	13
		Easter Monday.	
30	T	Administrative Committee meets, 3.30 p.m.	
		Finance Committee meets, 4 p.m.	
31	W		

* The award of these Scholarships in 1937 will be subject to the necessary funds being available therefor.

OFFICERS OF THE UNIVERSITY.

CHANCELLOR:

The Honourable Sir James William Blair, K.C.M.G., Chief Justice.

VICE-CHANCELLOR:

William Nathaniel Robertson, C.M.G., C.B.E., M.B., C.M., F.R.A.C.S., F.C.S.A.

THE SENATE OF THE UNIVERSITY:

Professor Henry Alcock, M.A.

Albert Edwin Axon, M.E.

Anna Frederica Bage, M.Sc.

The Honourable Sir James William Blair, K.C.M.G., Chief Justice.

James Bristock Brigden, M.A.

Robert Joseph Carroll.

Sir Raphael West Cilento, K.B., M.D.

The Most Reverend James Duhig, D.D.

Professor Ernest James Goddard, B.A., D.Sc.

John Brownlie Henderson, O.B.E., F.C.S., F.I.C.

Thomas Llewellyn Jones.

Alec Douglas McGill, B.A., K.C.

Bernard Joseph McKenna.

Associate Professor Alexander Clifford Vernon Melbourne, M.A., Ph.D.

Gordon Keith Daniel Murphy, B.A.

William Nathaniel Robertson, C.M.G., C.B.E., M.B., C.M., F.R.A.C.S., F.C.S.A.

Edwin James Droughton Stanley, B.A.

John Douglas Story, I.S.O.

The Most Reverend John William Charles Wand, M.A., D.D.

The Reverend Harold Manuel Wheller.

NOTE.—The above will retire on the 28th February, 1938. An election of members of the Senate by the Council will take place in February, 1938.

STANDING COMMITTEES.

The Standing Committees are appointed at the first meeting of the Senate held after the first Tuesday in March in each year.

NOTE.—The Chancellor and Vice-Chancellor are *ex officio* members of all Standing Committees.

EDUCATION COMMITTEE:

Chairman: The Vice-Chancellor.

The Education Committee consists of the several members of the Senate and the Deans of the several Faculties as associate members.

ADMINISTRATIVE COMMITTEE:

Chairman: Mr. Story.

Mr. Brigden, Mr. Carroll, Sir R. W. Cilento, Mr. Jones, Mr. McGill, and Mr. Stanley.

BUILDINGS AND GROUNDS COMMITTEE.

Chairman: Associate Professor Melbourne.

Professor Alcock, Mr. Axon, Miss Bage, Archbishop Duhig, Professor Goddard, Mr. Henderson, Mr. McKenna, and Archbishop Wand.

Associate Members: Professor Hawken; Mr. W. E. Bush, M.Inst.C.E., M.Inst.E. (Aust.), F.R. (Fan.) Inst.; Mr. A. B. Leven.

FINANCE COMMITTEE:

Chairman: Mr. Story.

Mr. Brigden, Mr. Carroll, Sir. R. W. Cilento, Mr. Jones, Mr. McGill, and Mr. Stanley.

LIBRARY COMMITTEE:

Chairman: Mr. Henderson.

Professor Alcock, Archbishop Duhig, Dr. Gibson, Professor Goddard, Mr. McKenna, Associate Professor Melbourne, and Archbishop Wand.

Associate Members: The Deans of the Faculties.

COMBINED ADVISORY COMMITTEE:

Chairman: Mr. T. J. Bale.

Senate Representatives: Professor Alcock, Mr. Axon, Miss Bage, Dr. Gibson, and Mr. Murphy.

UNIVERSITY COMMITTEE FOR TUTORIAL CLASSES AND PUBLIC LECTURES:

Chairman: Professor Alcock.

Hon. Secretary: Mr. W. M. Kyle.

University Representatives: Mr. Jones, Mr. W. M. L'Estrange, Associate Professor Melbourne, and Mr. Murphy.

AUSTRALIAN BROADCASTING COMMISSION—QUEENSLAND COMMITTEE:
University Representatives: Professors Alcock, Goddard, Parnell, Scott Fletcher, and Stable.

THE COUNCIL OF THE UNIVERSITY.

Warden: The Honourable Thomas Charles Beirne.

TEACHING STAFF.

PROFESSORS:

Agriculture: 1927, Jack Keith Murray, B.A., B.Sc. Agr.
Biology (McCaughey Professor): 1922, Ernest James Goddard, B.A., D.Sc.
Chemistry: 1931, Lancelot Salisbury Bagster. D.Sc.
Classics: 1910, John Lundie Michie, M.A. Ll.D.
Dentistry: 1935, Francis Ernest Helmore, D.D.Sc.
Engineering: 1919, Roger William Hercules Hawken, B.A., M.E., M.Inst.C.E., M.I.E. (Aust.).
English Language and Literature (Darnell Professor): 1922, J. J. Stable, M.A.
Geology and Mineralogy: 1919, Henry Caselli Richards, D.Sc.
History and Economics (McCaughey Professor): 1922, Henry Alcock, M.A.
History: 1934, Alexander Clifford Vernon Melbourne, M.A., Ph.D., Associate Professor.
Law (Garrick Professor): 1925, Francis William Sutton Cumbrae-Stewart, K.C., D.C.L.
Mathematics: 1932, Eugene Francis Simonds, M.A., B.Sc., Ph.D.
Medical Psychology (Research): 1921, James Prain Lowson, M.A., M.D.
Philosophy: 1923, Michael Scott Fletcher, M.A., B.Litt.
Physics: 1919, Thomas Parnell, M.A.; 1922, Sydney Gordon Lusby, M.A., Assistant Professor.

LECTURERS:

Bio-Chemistry: 1929, Herbert John Garnham Hines, B.Sc.
Biology: 1920, Albert Cayzer, B.Sc.; 1924, Desmond Andrew Herbert, D.Sc.
Chemistry: 1921, Thomas Gilbert Henry Jones, D.Sc., A.A.C.I.
Civil Engineering: 1921, Cecil Napier Ross, M.Sc., B.M.E.
Classics: 1919, Stanley Castlehow, M.A.
Economic Entomology: 1929, Frederick Athol Perkins, B.Sc. Agr.
Economic History: 1935, Bevil Hugh Molesworth, M.A.
Economics: 1923, John Liddle King Gifford, M.A.
Forest Botany (Part Time): Cyril Tenison White.
Geology: 1920, Walter Heywood Bryan, D.Sc.
1926, Frederick William Whitehouse, M.Sc., Ph.D.
Mathematics: 1931, Ethel Harriet Raybould, M.A.; 1932, James Patrick McCarthy, M.A.

Mechanical and Electrical Engineering: 1919, Arthur Boyd, B.E., D.Sc., M.I.E.E., Assoc.M.Inst.C.E.

Meteorology and Physics: 1921, Travis Rimmer, M.Sc.

Modern Languages: 1922, Frederick Walter Robinson, M.A., Ph.D.; 1922, Charles Schindler, M.A.; 1926, Hannibal Gustav Tommerup, B.A. (Part Time).

Music: 1934, Sydney May (Organiser and Part-Time Lecturer).

Philosophy: 1923, William Marquis Kyle, M.A.

Surveying (Part Time): 1924, Frederick William James, M.Sc.

Building Construction and Architecture (Part Time): F. L. Jones.

DEPARTMENT OF EXTERNAL STUDIES:

Director: 1911, Thomas Edward Jones, B.A. Assistants—1923: Annie Emily Jane Darvall, B.A.; 1931: Marjorie Margaret Cullen Smith, B.A.

CHIEF TUTOR AND DIRECTOR OF WORKERS' TUTORIAL CLASSES: 1921, Bevil Hugh Molesworth, M.A.

SENIOR DEMONSTRATORS AND ASSISTANT LECTURERS:

Engineering: 1913, Andrew Ross Munro, B.E., Assoc.M.Inst.C.E., A.M.I.Mech.E.; 1929, Archibald Johnstone McComas Stoney, B.E.E., A.M.I.E. (Aust.).

Chemistry: 1922, Edmund Arthur O'Connor, M.Sc.

Biology: 1936, Ronald Kenneth Macpherson, B.Sc.

Agriculture (Genetics and Plant Breeding): 1931, Wilfred Walter Bryan, B.Sc. Agr.

Dentistry (Clinical): 1935, Alfred James Hoole.

Department of Modern Languages: 1933, James Charles Mahoney, B.Litt., M.A.

TUTORS:

Social Science and Administrative Law: 1932, Thomas Penberthy Fry, M.A., B.C.L., Sc.Jur.D.

Department of Classics: 1935, Elsie Harwood, B.A.

SCIENTIFIC ASSISTANTS AND DEMONSTRATORS:

Biology: Alick Edwin Mee.

Geology: Albert N. Falk.

Survey Field Work (Part Time): W. Sayers.

Dental Mechanics and Prosthetics: Percy Pohlman.

SPECIALIST LECTURERS AND INSTRUCTORS:

Faculty of Engineering.

Bridge Design: W. J. Doak, M.Inst.C.E.

Reinforced Concrete: N. C. Aitken, B.E.

Business Methods and Workshop Management: E. H. George, F.I.C.A., F.F.I.A., A.C.I.S.

Railway Signalling: F. G. Nevill.
Sub-station Engineering: L. G. Pardoe, B.E.
Fitting and Machining: W. Armitage.
Electric Welding: A. J. Uscinski, B.E.

Faculty of Commerce.

Accountancy, Auditing, and Commercial and Industrial Organization: E. H. George, F.I.C.A., F.F.I.A., A.C.I.S.; A. F. Hess, B.A., B.Com., F.I.C.A., A.F.I.A.; O. Tuttle, F.I.C.A., A.F.I.A.; J. Packman, A.I.C.A.; I. S. Webley, A.C.I.S., A.L.A.A., A.I.C.A.; J. McCracken, A.I.C.A., A.A.O.Q.
Taxation Law and Practice: C. G. McCorkell, A.C.I.S.
Bankruptcy Law, Company Law, Mercantile Law, Law of Trustees: A. J. Mansfield, J. D. C. Story.

Faculty of Agriculture.

Zootechny and Diseases of Animals: A. J. McKenzie, V.D., V.S.
Dairying and Dairy Manufactures: R. R. Keats, H.D.D.
Horticulture and Irrigation Practice: J. W. Howie.
Farm Engineering: T. J. Barratt.

FACULTY OF DENTISTRY.

Anatomy: E. S. Meyers, M.B., Ch.M.
Materia Medica: F. Bennett, B.Sc.
Metallurgy: S. B. Watkins, M.Sc.
Junior Operative Dental Surgery: A. Rossiter, L.D.Q.
Special Dental Pathology: N. M. Gutteridge, M.B., B.S.
General Pathology and Bacteriology: J. V. Duhig, M.B.
Medicine: Eustace Russell, M.D., Ch.B., M.R.C.P.
Anaesthetics: Ellis Murphy, M.B., Ch.M., M.R.C.P.
Special Dental Materia Medica: A. Rossiter.
General Surgery: A. G. Anderson M.B., Ch.M.
Orthodontia: B. L. Rosenstengel, D.D.S.
Dental Anatomy and Histology: H. Goldfinch, D.D.S.
Diseases of Ear, Nose, and Throat: H. V. Foxton, M.B., Ch.B.
Diseases of Children in Relationship to the Teeth: P. A. Earnshaw, M.B., Ch.M.
Jurisprudence: J. W. Ward.
Crown and Bridge Work, and Ceramics: R. P. Rheuben, D.D.S.
Advanced Prosthesis: R. P. Rheuben, D.D.S.

THE BOARD OF FACULTIES

President: Professor Alcock.

The Chancellor and Vice-Chancellor, Professors Alcock, Bagster, Cumbrae-Stewart, Goddard, Hawken, Helmore, Lowson, Michie, Murray, Parnell, Richards, Scott Fletcher, Simonds, and Stable, and for special purposes Mr. T. E. Jones.

THE FACULTIES.

NOTE.—The Chancellor and Vice-Chancellor are members, *ex officio*, of each Faculty.

THE FACULTY OF ARTS:

Dean of the Faculty: Professor Stable.

Professor Alcock, Mr. F. S. N. Bousfield, Mr. Castlehow, Professor Cumbrae-Stewart, Mr. L. D. Edwards, Professor Scott Fletcher, Mr. Gifford, Mr. T. E. Jones, Mr. Kyle, Mr. McCarthy, Associate Professor Melbourne, Mr. Molesworth, Dr. Robinson, Mr. Schindler, and Professor Simonds.

THE FACULTY OF SCIENCE:

Dean of the Faculty: Professor Richards.

Professor Bagster, Dr. Bryan, Mr. Cayzer, Professors Goddard and Hawken, Dr. Herbert, Dr. T. G. H. Jones, Assistant Professor Lusby, Mr. O'Connor, Professor Parnell, Miss Raybould, Mr. Rimmer, Professor Simonds, and Dr. Whitehouse.

THE FACULTY OF ENGINEERING:

Dean of the Faculty: Professor Hawken.

Professor Bagster, Dr. Boyd, Colonel Evans, D.S.O., M.I.E. Aust., Messrs. J. P. Harvey (Surveyor-General), J. S. Just, M.I.M.E., M.I.E.Aust., J. Kemp, M.Inst.C.E., M.I.E.Aust., Mr. Munro, Professor Parnell, Professor Richards, Mr. Ross, Professor Simonds, and Mr. W. E. Bush, M.Inst.C.E., M.I.E.Aust. (Chairman, Brisbane Division, I.E.A.).

THE FACULTY OF COMMERCE.

Dean of the Faculty: Professor Stable.

Professor Alcock, Mr. E. T. Campbell, Mr. E. H. George, Mr. Gifford, Mr. M. G. Haymen, Associate Professor Melbourne, Mr. G. K. Seabrook, and Mr. W. J. Tunley.

THE FACULTY OF AGRICULTURE:

Dean of the Faculty: Professor Goddard.

Professor Alcock, Professor Bagster, Dr. Bryan, Mr. Cayzer, Mr. A. H. Cory, Mr. A. E. Graham, Professor Hawken, Dr. Herbert, Mr. Hines, Mr. B. J. McKenna, Mr. Munro, Professor Murray, Professor Parnell, Mr. Perkins, Mr. H. C. Quodling, Mr. W. Ranger, Professor Richards, Mr. R. McL. Riddell, Mr. Rimmer, Professor Simonds, Mr. R. Veitch, and Mr. C. T. White.

THE FACULTY OF DENTISTRY.

Dean of the Faculty: Professor Goddard.

Professor Bagster, Mr. Cayzer, Sir R. W. Cilento, Mr. J. G. Cribb, Dr. T. V. Crowe, Mr. W. E. Earnshaw, Mr. C. B. Freeman, Professor Helmore, Mr. Hines, Dr. T. G. H. Jones, Mr. T. L. Jones, Assistant Professor Lusby, Dr. E. S. Meyers, Mr. W. R. Parker, Professor Parnell, Dr. R. P. Rheuben, Mr. R. McL. Riddell, Mr A. Rossiter, Mr. C. O. Vidgen, Dr. A. R. Walker.

THE FACULTY OF LAW:

Dean of the Faculty: Professor Cumbrae-Stewart.

The Chief Justice, The Senior Puisne Justice, The Attorney-General, members *ex officio;* Professor Alcock, Mr. G. R. H. Gill, Mr. H. J. Henchman, Mr. McGill, Professor Michie, Professor Stable and Mr. Stanley.

THE FACULTY OF MEDICINE:

Dean of the Faculty: The Chancellor.

WALTER AND ELIZA HALL BENEFACTION.

FELLOWSHIP.

In Economic Biology: Stanley Thatcher Blake, M.Sc.

ADMINISTRATIVE AND CLERICAL STAFFS.

REGISTRAR: Cecil Page-Hanify, M.V.O., F.I.C.A.

LIBRARIAN: Associate Professor Melbourne.

ASSISTANT LIBRARIAN: Ellen Katherine McIver.

ACCOUNTANT: John Dougal Cramb.

CHIEF OFFICE—

Accounts Section.—Clerk: Ivan William Stephensen. Junior Clerks: Louis Livingstone, Ronald Hann. Stenotypist: Ellen Gleeson.

Correspondence, Enquiries, and Records Section.—Clerk in Charge: Thelma Atkin. Stenotypists: Dorothy Emslie Watt, Margaret Irwin. Record Attendant: Bruce Green.

Examinations Section: Clerk in Charge: Isabel Hurwood. Clerk: Valentine Ward. Stenotypist: Helen Menzies Cunningham.

Telephone Attendant: Leonie Cowen.

Janitor: Walter Wyche.

OTHER DEPARTMENTS—

Biology.—Stenotypists and Clerks: Marjorie Scott Hobson, Agnes Gladys Henry.

Chemistry.—Stock Attendant and Clerk: Vida Dabbs.

Engineering.—Stenotypist and Clerk: Jean Gillies.

External Studies.—Stenotypist: Mary Gertrude Lyons.

Geology.—Stenotypist and Clerk: Mary McCarthy.

Library.—Attendant: Kathleen Marguerite St. John.

Workers' Tutorial Classes.—Senior Stenotypist and Clerk: Alathea Florence Browne.

LABORATORY STAFF.

LABORATORY MECHANICS—

Anatomy: Ernest Bagnall.
Applied Chemistry: Alfred Charles Braddy.
Chemistry: Charles Illidge.
Engineering: C. H. Mapp and P. N. Humphreys.
Physics: Robert Gibb.

LABORATORY ASSISTANTS—

Agriculture: David Jones.
Biology: Clarence Illidge.
Dentistry: George Klemm.
Engineering: Lionel Dennis Byrne and Victor Edward Darra.
Physics: John Jennings.

CHANGES IN CALENDAR, PART I.

STATUTE TO AMEND FURTHER THE STATUTE RELATING TO THE FACULTIES.

1. Clause 1 of the Statute relating to the Faculties shall be further amended by the addition of the following *after* (*f*) Agriculture:—(*g*) Dentistry.

2. Clause 2 of the Statute aforesaid shall be amended by the insertion of the following *after* (*f*):—One member to be nominated by the State Public Service Commissioner (Queensland):—

Until otherwise determined the Faculty of Dentistry shall include—

(i.) Such members of the University teaching staff as the Senate may determine;

(ii.) The chairman of the Brisbane and South Coast Hospitals Board;

(iii.) A member to be nominated by the Department of Public Instruction;

(iv.) The chairman of the Dental Board of Queensland;

(v.) The superintendent of the Brisbane Dental Hospital;

(vi.) The president of the Queensland Branch of the Australian Dental Association;

(vii.) Not more than four members of the Queensland Branch of the Australian Dental Association to be nominated by the Senate.

STATUTE RELATING TO THE T. C. BEIRNE SCHOOL OF LAW.

There is hereby established within the Faculty of Law of the University of Queensland the T. C. Beirne School of Law, for the organisation, within the Faculty of Law, of the teaching and study of the second, third, and fourth years of the course leading to the Degree of Bachelor of Laws.

STATUTE TO AMEND THE STATUTE RELATING TO THE ADMISSION OF GRADUATES OF OTHER UNIVERSITIES TO DEGREES IN THE UNIVERSITY OF QUEENSLAND.

1. Clause 4 of the Statute relating to the admission of graduates of other Universities to degrees in the University of Queensland shall be altered and amended as follows:—

First Column—

(Other Universities).

(*a*) Faculty of Arts. *Before* Master of Arts *prefix* Doctor of Letters or other degree resolved by the Faculty of Arts to be equivalent to Doctor of Letters.

In Second Column—

(University of Queensland).

Opposite Doctor of Letters, &c., in first column, *insert* (Corresponding to) Doctor of Letters.

(*c*) Faculty of Engineering. *Before* Master of Engineering *prefix* "Doctor of Engineering" or other degree resolved by the Faculty of Engineering to be equivalent to Doctor of Engineering.

In Second Column—

(University of Queensland).

Opposite Doctor of Engineering, &c., in first column, *insert* (Corresponding to) Doctor of Engineering.

STATUTE RELATING TO THE DEGREE OF BACHELOR OF DENTAL SCIENCE.

The Senate may confer the Degree of Bachelor of Dental Science on such persons as shall be qualified therefor in accordance with the Regulations hereinafter mentioned.

The Senate, on the recommendation of the Faculty of Dentistry, may make Regulations prescribing the exercises and necessary requirements for candidates for the Degree of Bachelor of Dental Science, and may from time to time alter

and repeal the same. Such regulations shall include the following provisions:—

1. Candidates for the Degree of Bachelor of Dental Science shall be matriculated students of the Faculty of Dentistry.
2. They shall attend lectures, practise laboratory work, and pass examinations comprised as a course of study extending over not less than four academic years.
3. No candidate may present himself for examination in any year until he has passed the examination of the previous year.
4. Candidates for the Degree of Bachelor of Dental Science shall each year engage in practical work as may be prescribed.

REGULATIONS IN CONNECTION WITH THE DEGREE OF BACHELOR OF DENTAL SCIENCE (B.D.Sc.).

Scheme of Studies.

First Year.

During the first year of their course candidates shall pass in all the following subjects:—

Biology, Part I. (excluding Botany I.);
Chemistry, Part I.;
Physics, Part I.;
Human Anatomy, Part I.;
Prosthetic Dentistry, Part I.

Candidates who have fulfilled the foregoing conditions shall thereby complete their first year.

Second Year.

Candidates who have completed their first year may proceed to the work of the second year of their course. Such candidates shall pass in all the following subjects:—

Human Anatomy, Part II.;
Physiology;
Comparative Dental Anatomy and Histology;
Metallurgy;
Materia Medica;
Prosthetic Dentistry, Part II.;
Operative Dental Surgery, Part I.

Candidates who have fulfilled the foregoing conditions shall thereby complete their second year.

Third Year.

Candidates who have completed their second year may proceed to the work of the third year of their course. Such candidates shall pass in all the following subjects:—

Bacteriology and Pathology;
Special Dental Pathology;
Medicine;
General Surgery;
Orthodontia, Part I.;
Anæsthetics;
Operative Dental Surgery, Part II.;
Prosthetic Dentistry, Part III.

Candidates who have fulfilled the foregoing conditions shall thereby complete their third year.

Fourth Year.

Candidates who have completed their third year may proceed to the work of the fourth year of their course. Such candidates shall pass in all the following subjects:—

Operative Dental Surgery, Part III.;
Prosthetic Dentistry, Part IV., including Crown and Bridge Work; and Ceramics;
Oral Surgery and Radiography;
Orthodontia, Part II.;
Clinical Dental Pathology;
Periodontology;
Preventive Dentistry;
Diseases of the Ear, Nose, and Throat;
Ethics and Jurisprudence.

Candidates who have fulfilled the foregoing conditions shall thereby complete their fourth year, and may be admitted to the Degree of Bachelor of Dental Science.

STATUTE RELATING TO THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY.

1. Candidates for the degree of Bachelor of Science in Forestry shall be matriculated students of the Faculty of Science and shall attend lectures and practise laboratory work and pass examinations comprised in a course of study

extending over not less than *four* completed academical years. No candidate shall present himself for examination in any year until he has satisfied the requirements of the preceding year.

2. Candidates for the Degree of Bachelor of Science in Forestry who are able to attend as part-time students only may be permitted to extend their studies over a period of *six* years.

REGULATIONS IN CONNECTION WITH THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY.

1. These regulations shall remain in force only—

(*a*) Until such time as the Australian Forestry School at Canberra is in a position to grant degrees; and

(*b*) So long as the Senate of the University on the advice of the Faculty of Science and of the Board of Higher Forestry Education for Australia is satisfied that the work of the Institution is of University standard.

2. Candidates for the Degree of Bachelor of Science in Forestry shall have fulfilled the matriculation requirements for the Faculty of Science.

3. Subsequent to their matriculation, candidates shall at this University either—

(*a*) Complete the first two years of the course for the degree of Bachelor of Science in Agriculture; or

(*b*) Complete two years of the course for the degree of Bachelor of Science as set out below:—

First Year.

Chemistry I.;
Biology I.;
Geology I.;
Physics I.;
Pure Mathematics I. (to approved standard).

Second Year.

Botany II.;
Chemistry II.; and
One other Second Year subject.

4. The work of the third and fourth years shall be carried out at the Australian Forestry School, Canberra, and shall be as set out in the Calendar of that School. Candidates who satisfactorily perform the practical work and pass the examinations therein prescribed shall thereby complete the third and fourth years of their course.

5. Candidates may be admitted to the Degree of Bachelor of Science in Forestry who have—

(*a*) Completed the four-years course above prescribed;

(*b*) Produced a certificate from some Forest Authority approved by the Faculty that, subsequent to the completion of their Fourth Year, they have performed twelve months' satisfactory forest service under that authority;

(*c*) Presented a report on this year's forest service approved by the Faculty as of sufficient merit for purposes of the Degree.

Note.—At present, by arrangement with the Department of Forestry, Queensland forestry cadets, as part-time students, spread the work of the second year over two years. They take the subjects of the second-year course in Agriculture and in addition courses in Economics, Meteorology, and Elementary Surveying.

STATUTE RELATING TO THE DEGREE OF BACHELOR OF LAWS.

Candidates for the Degree of Bachelor of Laws shall be matriculated students of the Faculty of Law. They shall attend lectures and pass annual examinations in subjects comprised in a course of study extending over not less than four completed academical years.

RULES IN CONNECTION WITH THE DEGREE OF BACHELOR OF LAWS.

1. Candidates who have attended lectures and passed the prescribed examinations in the following subjects, Latin

I., Constitutional History and Political Science I., and English I., shall be deemed to have completed the First Year of study under the Statute relating to the Degree of Bachelor of Laws, and be qualified for admission to the T. C. Beirne School of Law.

1A. Candidates who, prior to matriculation in the Factulty of Law, have passed the Senior Public Examination in Latin and Ancient History at A or B class standard, and Logic, may include Roman Law in the subjects of their First Year.

2. Candidates who have been admitted to the School of Law and have attended lectures and passed the prescribed examinations in—

(*a*) Roman Law;
(*b*) Constitutional Law (B) and (C);
(*c*) Jurisprudence; and
(*d*) Public International Law;

in such order as may be prescribed from time to time shall be deemed to have completed the Second Year of study.

Notwithstanding the above provision, candidates who have been admitted to the School of Law and who under Rule 1A above have obtained credit for Roman Law in their First Year may complete Constitutional Law (B) and (C), Jurisprudence and Public International Law in one and the same subsequent year, and on doing so shall be deemed to have completed the Second Year of study.

2A. Graduates in Arts who have included in their course for the Degree of Bachelor of Arts subjects of the course with a direction towards Law shall be deemed to have completed the Second Year of study.

3. Candidates who have completed the Second Year shall attend lectures and pass the prescribed examinations in the following subjects, namely:—

(*a*) Equity;
(*b*) Criminal Law;
(*c*) Real Property and Conveyancing;
(*d*) Personal Property;
(*e*) Contracts;;

(*f*) Company Law; and

(*g*) Torts;

and on passing such examinations shall be deemed to have completed the Third Year of study.

4. Candidates who have completed the Third Year shall attend lectures and pass the prescribed examinations in the following subjects, namely:—

(*a*) Admiralty, Ecclesiastical, and Matrimonial Law;

(*b*) Bankruptcy Law and Practice;

(*c*) Pleading Practice and Evidence in—

(i.) The Supreme Court; *and/or*

(ii.) Inferior Courts.

(*d*) Private International Law;

and on passing such examinations shall be deemed to have completed their Fourth Year of study.

5. Candidates shall not be admitted to the course for any year until they have satisfied the requirements for the preceding academical year.

6. Candidates who have passed the Fourth Year of study and otherwise complied with the Statute and Rules may be admitted to the Degree of Bachelor of Laws.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE.

(Calendar, Part I., pp. 84-5.)

(*a*) In paragraph 4 the words in the first sentence—

"In the corresponding group or groups for the Master of Arts Degree" *to be transferred to the end of the sentence*;

(*b*) Rule I. to be amended by the addition of the following at the end of the first sentence—

"And candidates shall have obtained credit for such subjects of the ordinary pass degree as are required of candidates for Final Honours in that group, or such equivalent work as may be prescribed from time to time by the Faculty."

STATUTE RELATING TO THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE.

1. Candidates for the Degree of Master of Science in Agriculture shall be Bachelors of Science in Agriculture of at least three years' standing who, for not less than three years, shall have occupied themselves with research into or the practice of a branch of Agriculture approved by the Faculty. They shall furnish evidence of such research or practice.

2. Each candidate shall—

(i.) At some examination of the Faculty attain a standard not lower than that of Second Class in the Final Examination for the Degree of Bachelor of Science in Agriculture with Honours; and

(ii.) Present a thesis, based on original work in some branch of Agricultural Science, which the Examiners appointed for the purpose certify to be of sufficient merit.

STATUTE RELATING TO THE DEGREE OF DOCTOR OF SCIENCE.

1. The Senate may confer the Degree of Doctor of Science on such persons as shall be qualified therefor in accordance with the Regulations hereinafter mentioned.

2. The Senate, on the recommendation of the Faculty of Science, may make Regulations prescribing the exercises and requirements necessary for candidates for the Degree of Doctor of Science, and may from time to time alter and repeal the same.

3. Any person admitted to the Degree of Doctor of Science prior to the commencement of this Statute shall be deemed to have been as validly admitted as if this Statute had been in force at the time of such admission.

STATUTE RELATING TO THE DEGREE OF DOCTOR OF ENGINEERING.

1. The Senate may confer the Degree of Doctor of Engineering on such persons as shall be qualified therefor in accordance with the Regulations hereinafter mentioned.

2. The Senate, on the recommendation of the Faculty of Engineering, may make Regulations prescribing the exercises and requirements necessary for candidates for the Degree of Doctor of Engineering, and may from time to time alter and repeal the same.

STATUTE RELATING TO THE DEGREE OF DOCTOR OF LETTERS.

1. The Senate may confer the Degree of Doctor of Letters on such persons as shall be qualified therefor in accordance with the Regulations hereinafter mentioned.

2. The Senate, on the recommendation of the Faculty of Arts, may make Regulations prescribing the exercises and requirements necessary for candidates for the Degree of Doctor of Letters, and may from time to time alter and repeal the same.

STATUTE RELATING TO THE INSTITUTE OF MODERN LANGUAGES.

On page 82 the following new Statute *to be added*:—

"1. There shall be within the University an Institute, to be called 'The Institute of Modern Languages,' controlled by a Board, as appointed by the Senate of the University.

"2. Subject to the supreme control of the Senate, the duties of the Board shall be to promote and extend the teaching of Modern Languages.

"3. The Senate shall, from time to time, make rules to govern the membership and activities of the Institute."

STATUTE RELATING TO THE CERTIFICATE IN ACCOUNTANCY.

1. There shall be examinations in subjects connected with the theory and practice of Accountancy for the purpose of granting certificates of proficiency therein.

2. Candidates for the Certificate in Accountancy shall attend lectures and pass examinations in subjects comprised in a course of study extending over not less than two

completed years. No candidate shall present himself for examination in a second or subsequent year until he has passed the examination of the preceding year.

3. The course of study for the Certificate may be followed in such Technical Colleges or Institutions as may be approved by the Senate on the recommendation of the Faculty of Commerce.

4. An approved College or Institution shall be one in which the teachers and equipment are approved by the Senate, and subject to inspection by any officer appointed by the Senate.

5. The examination of candidates for the Certificate shall be conducted by persons approved by the Senate on the recommendation of the Faculty of Commerce.

6. A certificate shall not be issued to any candidate who has not been engaged, for a period of at least two years, in Commercial or Governmental Accounting work approved by the Faculty of Commerce as suitable for training purposes.

7. The holders of the Certificate shall be called Associates in Accountancy of the University of Queensland, and shall be entitled to the use of the letters "A.A.U.Q."

RULES.

Entrance Requirements.

1. Candidates for the Certificate in Accountancy shall have qualified for a Junior Public Examination Certificate endorsed in the Commercial Section or in the General Section, or shall hold a Certificate regarded by the Faculty of Commerce as equivalent thereto.

Scheme of Studies.

2. The following subjects shall be studied by candidates for the Certificate, and the studies shall extend over a period of not less than two completed academic years:—

(*a*) Accounting, Section I.;

(*b*) Accounting, Section II.;

(*c*) Commercial and Industrial Organisation;

(*d*) Auditing;

(*e*) Taxation Law and Practice;
(*f*) Company Law;
(*g*) Mercantile Law;
(*h*) Law of Bankruptcy and Law of Trustees.

3. A candidate shall be held to have passed in any subject or part of a subject when he has attended the course of lectures and passed the examinations prescribed for that subject or part of a subject. A candidate who fails to attend at least 80 per cent. of the lectures may be deemed ineligible for examination.

4. Accounting, Section II., Bankruptcy Law and Law of Trustees, Company Law, and Auditing, may not be taken until a pass has been obtained in Accounting, Section I.

MATRICULATION CEREMONY.

The ceremony of matriculation has been restored. It will be held at 10 a.m. on the Saturday immediately preceding the beginning of First Term (so as to enable evening students and available external students to take part).

ADDITION TO MATRICULATION RULES—

(*a*) Faculty of Arts.

On page 42, *after* subsection (11.), *insert* the following paragraphs:—

> "Music has now been approved by the Senate as one of the four subjects for matriculation in the Faculty of Arts, when Latin or Mathematics A is passed as a fifth subject either at approved intermediate, or at full senior standard.
>
> "The requirements in Music for this purpose are—Theory Grade II., and a practical subject Grade II., taken in the examinations of the A.M.E. Board."

(*b*) Faculty of Science.

On page 43, *after* paragraph 3, *insert* the following paragraph:—

> "In the case of evening and external students in the Faculty of Arts, the three units required to complete a Science matriculation under the Rule in question must be passed within two years."

(*c*) FACULTY OF DENTISTRY.

1. Until otherwise determined, any candidate who has passed at the Senior Public Examination standard of the University of Queensland, at not more than two examinations, in at least four of the subjects contained in the list of subjects for matriculation in the Faculty of Science, shall be deemed to have qualified for admission to the Faculty of Dentistry, provided—

(*a*) One of the subjects shall be English, and one shall be either Mathematics A or a Science subject; and

(*b*) If not included in the four Senior subjects, one of the languages other than English, and either Chemistry or Physics, must have been passed at the Junior Public Examination standard, in addition to the four Senior subjects.

(*Note.*—The Examination in November and the Supplementary Examination in the February following shall be regarded as constituting one Examination.)

2. Any candidate who has qualified for admission as a matriculated student of the Faculty of Science shall be deemed to have qualified for admission to the Faculty of Dentistry.

(*d*) FACULTY OF LAW.

1. Candidates who have satisfied the requirements for matriculation in the Faculty of Arts shall be qualified for matriculation in the Faculty of Law.

2. Candidates who are graduates in the Faculties of Science, Engineering, Commerce, or Agriculture, who have passed in Latin at a standard not lower than the Intermediate standard shall be deemed to have matriculated in the Faculty of Law.

Note.—A pass in the Bar Preliminary Examination obtained before 31st December, 1935, will be accepted in lieu of matriculation in the Faculty of Law.

RULES FOR DEGREE OF BACHELOR OF ARTS.

The Groups of subjects on page 48 are altered, and are now as follows:—

(A) Latin (Part I., Part II.); Greek (Part I., Part II.).

(B) English (Part I., Part II.); French (Part I., Part II.); German (Part I., Part II.).

(C) History (Part I., Part II.); Constitutional History and Political Science (Part I., Part II.).

(D) Philosophy (Part I.); Philosophy (Part II.) [Logic and Psychology]; Philosophy (Part II.A) [Ethics and Metaphysics]; Education.

(E) Pure Mathematics (Part I., Part II.); Applied Mathematics (Part I., Part II.); Statistical and Actuarial Mathematics; Economics (Part I., Part II.).

(F) Biology (Part I.); Chemistry (Part I.); Geology and Mineralogy (Part I.); Physics (Part I.).

(G) Greek Literature and Art; Economic History; Music.

(H) Jurisprudence; Roman Law; Public International Law.

Omit the footnote *after* the obelisk on page 48. See details of subjects for changes.

Clause 5 (*d*), on page 49, *to read*—

"Not less than one subject be taken from Groups E and F together, unless three subjects be taken from Group H."

On page 50, Rule 7, *delete* paragraph "Economics may not be taken . . . as a preliminary to Economics I.)"

On pp. 50-51, *for* "British History" *read* "History."

Note.

The following courses, devised to cover three years of study, are suggested for the guidance of students:—

(I.) Course with a direction towards Language and History—

First Year—Language I.; Language I.; Pure Mathematics I. or Science I. or Economics I.

Second Year—Language II.; Language II.; History I., or Constitutional History and Political Science I.

Third Year—Philosophy I.; Economics I.; History II. or Constitutional History and Political Science II.

(II.) Course with a direction towards Language and Philosophy:—

First Year—Language I.; Language I.; Pure Mathematics I. or Science I. or Economics I.

Second Year.—Language II.; Language II.; Philosophy I.

Third Year—History I.; Philosophy II. and II.A.

(*Note on Courses I. and II. deleted.*)

(III.) Course with a direction mainly towards History:—

First Year—Language I.; Philosophy I.; Pure Mathematics I. or Science I. or Language I.

Second Year—History I.; Constitutional History and Political Science; Language II. (*Alternative courses deleted.*)

Third Year—History II.; Constitutional History and Political Science II., Economics I. (or Economic History provided that credit has been obtained in Pure Mathematics I. or in a Science I.)

(*Note transferred to foot and wording slightly altered.*)

(IV.) Course with a direction mainly towards Philosophy:—

First Year—Philosophy I.; Language I.; Pure Mathematics I. or Science I. or Language I.

Second Year—Philosophy II.; Language II.; Constitutional History and Political Science I.

Third Year—Philosophy II.A; Economics I.; Constitutional History and Political Science II.

(V.) Course with a direction towards Mathematics and Science:—

First Year—Pure Mathematics I.; Language I.; Philosophy I.

Second Year—Pure Mathematics II.; Applied Mathematics I.; Language II.

Third Year—History I.; Applied Mathematics II.; Physics I.

(VI.) (New Course.) Course with a direction towards Mathematics and Philosophy:—

First Year—Pure Mathematics I.; Physics I.; History I.

Second Year—Pure Mathematics II.; Philosophy I.; Language I.

Third Year—Philosophy II.; Philosophy II.A; Language II.

(*Note.—If only one language is taken in any of the Courses III. to VI., it must be other than English.*)

(VII.) Course with a direction towards Law:—

First Year—English I.; Latin I.; Constitutional Law, Section A.

Second Year—Roman Law; Constitutional Law, Section B; Greek Literature and Art (for evening and external students Latin II. or English II).

Third Year—Jurisprudence; Constitutional Law, Section C; Public International Law; Philosophy I.

(VIII.) Course with a direction towards Economics:—

First Year—English I.; French I. or German I.; Economic History.

Second Year—Economics I.; Philosophy I.; Constitutional History and Political Science I.

Third Year—Economics II.; Philosophy II.A; Constitutional History and Political Science II.

BACHELOR OF SCIENCE—PASS DEGREE.

On page 56, section 6, the paragraph beginning "All candidates" *to be altered* as follows:—

"All candidates selecting Group (*a*) in the First Year must attend the full course of lectures in Pure Mathematics I., and must reach an approved standard in the examination of that subject."

On page 57, section 8, "the subjects in the Third Year of the course to be grouped as follows:—

(*a*) Botany III.;

(*b*) Zoology III.;

(*c*) Either Chemistry III., or Chemistry III.A (specialising in General and Physical Chemistry), or Chemistry III.B (specialising in Organic Chemistry);

(*d*) Geology III.;

(*e*) Physics III., and

(*f*) Mathematics III."

In subsection (ii.) of this section *for* "(c)" *read* "Chemistry III."

BACHELOR OF SCIENCE WITH HONOURS.

(Part I., Calendar, page 59.)

Add to rules—

During their fourth year candidates for the Degree will be required to give evidence of their ability to read scientific papers written in German.*

NOTE.—A course of lectures in "German for Science Purposes" is provided, and may be attended by Science students at any time during their course.

BACHELOR OF APPLIED SCIENCE IN INDUSTRIAL CHEMISTRY—PASS DEGREE.

First Year—*To* "Geology and Mineralogy, Part I." *add* "*or* Biology I."

Second Year—In Drawing and Design, "Part II." *to be deleted* and "(to be completed in Third Year)" *to be added* after "part of."

Third Year.—In Drawing and Design, "Part II." *to be replaced* by "Third Year."

Fourth Year—*To* "Economic Geology—thirty lectures" *add* "*or* Economic Biology, according to first-year course."

To "Drawing and Design" *add* "Fourth Year."

BACHELOR OF APPLIED SCIENCE IN INDUSTRIAL CHEMISTRY (HONOURS).

Clause 4, on page 63, *to read—*

"Candidates may present themselves for examination at any time not less than one year, and

not more than two years, from the date on which they entered for the first time on the fourth year of their course."

BACHELOR OF ENGINEERING.

On page 65, Section 5, *append* the following footnote to the subject of Chemistry:—

"In future candiates who intend to proceed to the Degree of Chemical Engineering shall take such portion of Chemistry II. for Science students as may be prescribed."

On page 65, *after* the last paragraph in Section 5, *insert* the following:—

"*Note.*—For Evening Course in First and Second Year Engineering, see page 78."

On page 65, delete the footnote to "Building Construction and Architecture."

On page 66—The following to be inserted at the top of the page:—"During the year students shall complete one term of Laboratory work in Heat Engines."

On page 66—In the Regulations for Third-year Mechanical and Electrical Engineering, *add* the modification "excluding Astronomy" to the subject "Surveying, Part I."

On page 67—In the Mechanical and Electrical Engineering Regulation for Fourth Year, after the list of subjects in paragraph 9, *add* "During the August Vacation, candidates will attend one week's Surveying Camp."

On page 67—Under the heading "Chemical Engineering" in paragraph 12, "Surveying, Part I., excluding Astronomy," *to replace* "Economic Geology"; and "Civil Engineering I. as prescribed for students in Mechanical and Electrical Engineering" *to replace* "Civil Engineering I. (two terms)."

On page 68, the following paragraphs to be inserted between 13 and 14:—

"MINING ENGINEERING.

"Third Year.

"14. Candidates who have completed their second year may proceed to the third year of their course. Such candidates shall pass in the following subjects:—

Engineering Chemistry;

Geology, Part II.;

Civil Engineering, Part I., Testing of Materials, as prescribed for Students in Mining Engineering;

Surveying, Part I.;

Hydraulics, Part I.;

Engineering Drawing and Design III.

During the vacation between the third and fourth years of their course, candidates shall engage in approved work in the field.

"Candidates who have fulfilled the foregoing conditions shall thereby complete their third year.

"Fourth Year.†

"15. Candidates who have completed their third year may proceed to the fourth year of their course. Such candidates shall pass in the following subjects:—

Mining Engineering;

Electrical Engineering, as prescribed for Students in Mining Engineering;

Assaying;

Metallurgy and Ore Dressing;

Engineering Drawing and Design IV.

During the vacation at the end of their fourth year, candidates shall engage in practical work at an approved mine or carry out such laboratory work as may be prescribed in each case.

"Candidates who have fulfilled the foregoing conditions shall thereby complete their fourth year."

†NOTE.—At present the fourth-year work must be done at another Australian University.

EVENING COURSE IN ENGINEERING.

To paragraph 1 *add*—

"If unmatriculated, the student shall have completed the first two years of the diploma course."

On page 78, the following paragraphs *to be inserted between* "2" and "3":—

"2. (*a*) The entrance requirements to be satisfied before commencing Group A of the Evening Course in Engineering are as follows for those who have not matriculated:—

The student must have completed the entrance requirements for the Diploma in Mechanical and Electrical Engineering, together with the first and second years of that course."

DIPLOMA IN JOURNALISM.

In the Rules on page 81—

For 2 (2) *substitute* "Economic History or History II."

In (3) *delete* words in brackets.

In (4) *read* "English II., Constitutional History and Political Science II., Education."

On page 82—(3) *Delete* provision (*a*) and *re-letter* (*b*) and (*c*) as "(*a*)" and "(*b*)."

The scheme of studies for the Diploma in Journalism embraces the following subjects:—

(i.) English I.

(ii.) Economic History *or* either course in History II.

(iii.) Economics I.

(iv.) English II. *or* the alternate course in History II. not taken as a subject in Group (ii.) above.

(v.) One other subject to be taken from list of subjects for the Degree of Bachelor of Arts.

(vi.) Journalism.

The course in the subject of Journalism consists of two parts—

Part A—History and Law of Journalism: Thirty lectures.

Part B—Technique of Journalism (Reporting, Proof Reading, Paragraph Writing, Department Routine, &c.); Thirty lectures.

The lectures in Part A and Part B are given in alternate years.

SIR THOMAS McILWRAITH SCHOLARSHIPS.

On page 91, paragraph III. to read—

"The Scholarships shall be open to—

(*a*) Evening students of the Faculty of Engineering who have completed the work entitling them, and who intend, to enter the third year of the course for the Degree of Bachelor of Engineering as day students;

(*b*) As before;

(*c*) Half-time students. Students from Government Departments or elsewhere who propose to attend an approved course involving a portion of the third year may be granted a proportion of the Scholarship."

BACHELOR OF COMMERCE—PASS DEGREE.

SCHEME OF STUDY.

1. Subject to the provisions of the Statute relating to the Degree of Bachelor of Commerce, the course of study for the Degree shall extend over a period of not less than three completed academic years. Subjects selected from the following Groups shall be studied by candidates for the Degree:—

Group A—

Economics (Part I., Part II., Part III.); Economic History; Economic Geography (Half Course, part of Agricultural Economics (see Course LXI.); Accounting (Section I., Section II.).

Group B—

English (Part I., Part II.); French (Part I., Part II.); German (Part I., Part II.); Philosophy (Part I., Part II., Part II.A); History (Part II.).

Group C—

Commercial and Industrial Organization; Auditing; Taxation Law and Practice; Company Law; Mercantile Law; Law of Bankruptcy and Law of Trustees.

Group D—

Public International Law; Constitutional History and Political Science (Part I.); Modern Political Institutions and Theory; Pure Mathematics (Part I., Part II.); Statistical and Actuarial Mathematics; Statistics and Statistical Method.*

Group E—

Chemistry (Part I., Part II.); Physics (Part I., Part II.); Biology (Part I.); Geology (Part I.); Agriculture (Part I., Part II.); Wool Industry* (Part I., Part II.); Meat Industry* (Part I., Part II.); Transport* (Part I., Part II.); Banking, Currency, and Exchange.*

2. A full year's work in any subject selected from Groups A, B, D, E, with the exception of Accounting, shall constitute a part thereof. A part of any such subject shall represent one unit of study for the Degree. Accounting (Section I. and Section II.) shall represent one unit of study for the Degree, and each of the subjects included in Group C shall represent one half-unit of study for the Degree.

3. A candidate shall be held to have passed in any subject or part of a subject when he has attended the course of lectures, performed the laboratory or field work, and passed the examination prescribed for that subject or part of a subject.

4. Candidates shall obtain at least twelve units of credit for the Degree, provided that—

(*a*) The five units be taken from Group A;

(*b*) Not less than two units from Group B;

(*c*) Not less than one unit from Group C, which must include Commercial and Industrial Organization;

(*d*) Not less than one unit from Group D.

* When offered by the University.

5. Candidates shall pass in at least three subjects studied in two or more parts for two or three years. No candidate shall proceed to the study of the second part of any subject (except Agriculture) until he has passed in the first part of that subject. The following subjects or groups of subjects constitute subjects studied in two or more parts:—

1. Economics (Part I., Part II., Part III.);
2. English (Part I., Part II.);
3. French (Part I., Part II.);
4. Philosophy (Part I., Part II., or Part II.A);
5. Accounting (Section I., Section II.); Commercial and Industrial Organization; Auditing; Taxation Law and Practice;
6. Constitutional History and Political Science (Part I.); Modern Political Institutions and Theory;
7. Economic History; Modern Political Institutions and Theory;
8. Pure Mathematics (Part I., Part II.);
9. Pure Mathematics (Part I.); Statistical and Actuarial Mathematics;
10. Chemistry (Part I., Part II.);
11. Physics (Part I., Part II.);
12. Agriculture (Part I., Part II.);
13. *Wool Industry (Part I., Part II.);
14. *Meat Industry (Part I., Part II.).

The subjects may be selected by the candidate; but the selection must be approved by the Dean of the Faculty.

6. Candidates who select group 5 as equivalent to a subject studied in two parts must pass in Accounting and Commercial and Industrial Organization before taking Auditing and Taxation Law and Practice.

7. Pure Mathematics, Part I., is a compulsory subject of the Degree course. The Faculty, however, may, at its discretion, grant exemption from this subject to candidates who, before proceeding to the last five units of their course, have passed in Mathematics A of the Senior Public Examination at or above Intermediate standard.

* When offered by the University.

8. Candidates who do not include a modern language other than English in their Degree course must satisfy the Faculty as to their ability to translate accurately from a modern foreign language into English before proceeding to the last three units of their course.

9. Students shall not be allowed to enrol in Economics III. until credits have been given for passes in Economic History, Economics I., and Economics II.

Statistical and Actuarial Mathematics may not be taken until a pass has been secured in Pure Mathematics, Part I.

Public International Law may not be taken until passes have been obtained in Economic History, Economics (Part I.), Accounting (Section I. and Section II.), and two subjects selected from Group C.

Bankruptcy Law, the Law of Trustees, Company Law, and Auditing may not be taken until a pass has been secured in Accountancy, Part I.

Agriculture may not be taken until a pass has been secured in Biology, Part I.

10. In only one year of his course may a candidate receive credit towards the Degree in as many as four subjects selected from Groups A (excepting Accounting), B, D, and E. In other years he may not receive credit in more than three subjects selected from such groups.

11. Until such time as the Senate shall otherwise determine, the examinations for admission as Associates in the following Institutes of Accountants and Secretaries shall be recognised for the purpose of the Bachelor of Commerce Degree in Accounting (Section I., Section II.) and in the subjects of Group C:—

The Federal Institute of Accountants;
The Commonwealth Institute of Accountants;
The Australian Corporation of Practising Accountants;
The Chartered Institute of Secretaries;
The Australasian Institute of Secretaries;
The Institute of Chartered Accountants of Australia.
The Association of Accountants of Australia.

12. If a candidate has failed in any year to pass the examination in any subject of his course, the Faculty, in its discretion, may grant exemption in whole or in part from further attendance at lectures and from further laboratory practice in that subject or any part of that subject.

13. Candidates who, subject to these rules, have secured twelve units of credit may be admitted to the Degree of Bachelor of Commerce.

14. Bachelors of Commerce who, before or after graduation, have satisfied the Faculty that they have had sufficient practical experience in the keeping of financial books and in the preparation of final accounts, and have obtained credit for all the subjects of Group C, may have their certificates endorsed accordingly and may indicate such endorsement by adding "(Accountancy)" after the name of their Degree: thus, "B.Com. (Acctcy.)."

Note.—The following courses are suggested for the guidance of students:—

1. Course with a direction towards Accountancy—

   The subjects of Group A; English, Part I.; Philosophy, Part I.; the subjects of Group C; Statistics and Statistical Method; one other subject from Group D studied in two parts.

2. Course with a direction towards Public Administration—

   The subjects from Group A; French, Part I., or German, Part I.; Philosophy, Part I.; Commercial and Industrial Organization; Auditing; Taxation Law and Practice; Constitutional History and Political Science, Part I.; Modern Political Institutions and Theory; Public International Law; Statistics and Statistical Method.*

3. Course with a direction towards Industry or Agriculture—

   The subjects from Group A; Language, Part I.; Philosophy, Part I.; Commercial and Industrial Organization; Auditing; Taxation Law

* When offered by the University.

and Practice; Public International Law; and two subjects from Group E, one of which must be studied in two parts.

4. Course with a direction towards Salesmanship—

The subjects from Group A; Language, Part I.; Philosophy, Part I. and Part II.; Commercial and Industrial Organization; Mercantile Law; Pure Mathematics, Part I.; a subject from Group E studied in two parts.

5. Course with a direction towards Law—

The subjects from Group A; English, Part I.; Philosophy, Part I.; the subjects from Group C; Public International Law; Constitutional History and Political Science, Part I.; Modern Political Institutions and Theory.

6. Course with a direction towards Actuarial Science—

The subjects from Group A; Language, Part I.; Philosophy, Part I.; the subjects from Group C; Pure Mathematics, Part I.; Statistical and Actuarial Mathematics; Statistics and Statistical Method.*

BACHELOR OF COMMERCE WITH HONOURS.

On page 71, in paragraph 3, *for* "Honours" *read* "Honour."

On page 72, in group (A), *substitute* "Economic History"' *for* "Modern History (including General Economic History)."

After "Economic History," *add* "(ii.) Economic Geography (Half Course, part of Agricultural Economics, Course LXI.)."

Renumber (ii.) and (iii.) *to* (iii.) and (iv.).

From (iii.) in Group (B) *omit* the words in brackets after "Economics I."

* When offered by the University.

In Group (D) *substitute* "Economics III." *for* "Economics II.A."

Re-word Rule 6 as follows:—

"6. Not later than the first examination period of the fifth year, there shall be a Final Honours Examination in Economics, Economic History, and Constitutional History and Political and Social Thought."

BACHELOR OF SCIENCE IN AGRICULTURE—PASS DEGREE.

Scheme of Study.

1. Candidates for the Degree of Bachelor of Science in Agriculture shall have fulfilled the matriculation requirements for the Faculty of Agriculture.

2. A candidate shall be held to have passed in any subject or part of a subject when he has attended the course of lectures, performed laboratory and field work, and passed the examination prescribed for that subject or part of a subject.

3. In the third and fourth years of the course, schemes of study are arranged in three general groups, enabling candidates to devote special attention to selected subjects constituting the group adopted. The directions of specialisation within these groups are as follows:—

Group A.—Agriculture.

Group B.—Animal Nutrition; *or*
Dairy Manufactures.

Group C.—Applied Botany (as represented by Plant Pathology, Horticulture, Plant Breeding, Plant Physiology, or Agrostology); *or*
Entomology; *or*
Soils.

4. Before entering upon the third year of their course, candidates must, in consultation with the Dean of the Faculty, decide on the direction of their subsequent studies.

First Year.

5. During the first year of their course, candidates shall pass in the following subjects:—

Biology, Part I.;
Chemistry, Part I.;
Geology and Mineralogy, Part I.;
Physics, Part I.; and
Technical Drawing, as prescribed for students in Agriculture; *or*
Pure Mathematics I., as prescribed for first-year science students selecting Group (*a*) (*see* Calendar, Part I., p. 56).

Candidates electing to take Mathematics I. are advised to attend practical classes in Technical Drawing.

During the vacation between first and second year of their course, candidates shall engage in such field work at the State Agricultural College or elsewhere as may be prescribed.

Candidates who have fulfilled the foregoing conditions shall thereby complete their first year.

Second Year.

6. Candidates who have completed their first year may proceed to the second year of their course. Such candidates shall pass in the following subjects:—

Economic Entomology;
Agricultural Chemistry, Part I.;
Agricultural Geology;
Botany, Part II.; and
Plant Pathology.

During the vacation between the second and third years of their course, candidates shall engage in field or such other work as may be prescribed.

Candidates who have fulfilled the foregoing conditions shall thereby complete their second year.

Third Year.

7. Candidates who have completed their second year may proceed to the third year of their course. The subjects

prescribed for the instruction of the several groups are:—

Group A.—

Agriculture—
Principles of Agriculture, Part I.;
Principles of Agriculture, Part II.;
Agricultural Engineering;
Farm Bookkeeping.

Animal Husbandry—
Ailments of Live Stock;
Zootechny.

Crop Improvement and Horticulture—
Genetics and Plant Breeding;
Agricultural Botany;
Horticulture.

Agricultural Bacteriology and Dairy Technology—
Agricultural Bacteriology;
Dairying.

Group B.—

Same as Group A., except that *Horticulture* is omitted.

Group C.—

Same as Group A., except that *Ailments of Live Stock* and *Dairying* are omitted, and *Agricultural Bacteriology* is done only in part.

During the vacation between the third and fourth years of their course, candidates shall engage in field or such other work as may be prescribed.

Candidates who have fulfilled the foregoing conditions shall thereby complete their third year.

Fourth Year.

8. Candidates who have completed the third year may proceed to the fourth year of their course. The subjects prescribed for the instruction of the several groups are:—

Group A.—

Agricultural Economics, Part I.;
Agricultural Chemistry, Part II.;
Botany III. (in part);
Meteorology;
Principles of Agriculture, Part III.;
Veterinary Parasitology.

Group B.—

Agricultural Economics, Part I.;
Agricultural Chemistry, Part II.;
Meteorology;
Principles of Agriculture, Part III.;
Veterinary Parasitology (to be taken only by candidates intending to take *Dairying* as major subject in Honours examination);
Chemistry III. B (in part).

Group C.—

Agricultural Economics, Part I.;
Agricultural Chemistry, Part II. (in part); and Soils;
Meteorology;
Principles of Agriculture, Part III.;
Veterinary Parasitology (to be taken only by candidates intending to take *Entomology* as major subject in Honours examination);
Botany III.

Each candidate shall, in the free time at his disposal during the year, devote special study to a selected subject in which he shall (*a*) prepare a thesis or report for submission as part of the Final Examination, (*b*) present himself for a written examination.

Note.—Three typewritten copies of such thesis or report must be submitted. One copy will be placed in the Library of the Queensland Agricultural High School and College at Gatton, and one will be retained in the University Library. The draft of such thesis or report should, in the first place, be submitted to the Dean of the Faculty, or his deputy, for editing. As a general rule, the matter as edited should not exceed forty foolscap pages (typewritten, double-spacing). Theses must reach the Registrar not later than the second Monday in February.

Candidates who have fulfilled the foregoing conditions shall thereby complete their fourth year.

Candidates who have completed their fourth year may be admitted to the Degree of Bachelor of Science in Agriculture.

DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE WITH HONOURS.

9. Honours shall be awarded at graduation after consideration of the candidate's record throughout his academic career.

Candidates for Honours shall be required to—

(*a*) Complete the Annual Degree Examination of the fourth year;

(*b*) Subseqently present themselves for an Honours Examination, which will include—

(1) A Paper in General Agriculture;

(2) Two Papers in the *special subject* (hereafter called the *major subject*) selected for study, together with a practical examination (which may include a *viva voce* examination);

(3) A Paper in some other subject (hereafter called the *minor subject*) selected by the candidate and approved by the Faculty.

Except that candidates selecting Agriculture as major subject must present themselves for examination in an additional minor subject in lieu of Agriculture (General Agriculture).

The following constitute major subjects:—

Agriculture;
Animal Nutrition;
Dairying;
Plant Pathology;
Horticulture;
Genetics and Plant Breeding;
Plant Physiology;
Agrostology;
Entomology;
Soils.

The following constitute minor subjects:—

(*a*) Any of the above selected in relation to the major subject; *or*

(*b*) Agricultural Economics;
Meteorology;
Agricultural Botany;
Agricultural Geology;
Agricultural Bacteriology.

10. Candidates for Honours must notify the Dean of the Faculty at the beginning of the third year. They must present themselves for the Honours Examination at the November or March examination period, and not later than one and a-half years after the completion of the fourth year of their course.

DIPLOMA IN MECHANICAL AND ELECTRICAL ENGINEERING.

RULES.

Entrance Requirements.

1. Candidates for the Diploma in Mechanical and Electrical Engineering shall pass an Entrance Examination in the following subjects, namely: English, Geography, Arithmetic, Algebra, and Geometry. These subjects may be passed either at—

(*a*) The Annual Technical College Examination of the Department of Public Instruction at the Stage II. Standard* in each case; or

(*b*) The Junior Public Examination of the University of Queensland.

2. The whole of the subjects must be passed in one and the same examination period extending from November to the following March, provided that the holder of a Junior Public Examination Certificate may pass at a subsequent examination in any of the subjects mentioned in Clause I. above not included in his certificate.

§ COMMERCE CERTIFICATE.

Candidates for the Commerce Certificate are required to pass in the following subjects:—

Economic History;

Economics, Part I.†, plus the Economic Geography section of Agricultural Economics (see Clause LXI.);

* A Supplementary Examination in this grade will be held each year in the month of February, and it will be open to candidates who sat in the preceding November to sit again in this examination for any subject or subjects in which they may have failed to pass in November.

† The restrictions on enrolments for Economics I. have been cancelled.

§ Discontinued in 1936.

Accounting, Section I. and Section II.;

The subjects of Group C of the Bachelor of Commerce Degree Course;

One subject from Group B and one subject from Group D of the Bachelor of Commerce Degree Course.

Pure Mathematics, Part I., is a compulsory subject of the course leading to the Commerce Certificate. The Faculty, however, may, at its discretion, grant exemption from this subject to candidates who have passed in Mathematics A of the Senior Public Examination at or above Intermediate standard, provided that passes in at least one unit from Group B and one unit from Group D have been obtained.

DIPLOMA IN COMMERCE.

Candidates for the Diploma in Commerce are required to pass in the following subjects:—

Economic History;

Economics, Part I.,* plus the Economic Geography Section of Agricultural Economics (see Course LXI.) and Part II.;

Accounting, Section I. and Section II.;

The subjects of Group C of the Bachelor of Commerce Degree Course;

Three subjects selected from Groups B, D, and E of the Bachelor of Commerce Degree Course, provided that at least one subject be selected from Group B and one from Group D.

If a modern language other than English be not selected from Group B, the candidate must satisfy the Faculty as to his ability to translate accurately from a modern language into English before completing the course.

Pure Mathematics, Part I., is a compulsory subject of the course leading to the Diploma in Commerce. The Faculty, however, may, at its discretion, grant exemption from this subject to candidates who have passed in Mathematics A of the Senior Public Examination at or above Intermediate standard, provided that passes in at least one unit from Group B and one unit from Group D have been obtained.

* The restrictions on enrolments for Economics I. have been cancelled.

DEGREE OF MASTER OF ENGINEERING.

On page 87, in paragraph 2, *after* "25 years" *add* "at the date of commencement of the Academic Year."

DEGREE OF MASTER OF COMMERCE.

On page 88 of Calendar, Part I., the following Rules are added:—

1. Bachelors of Commerce (Accountancy) of at least two years' standing may obtain the Degree of Master of Commerce without sitting for an examination in the Final Honours School of Economics, provided that—

(*a*) They reach a standard not lower than that required for second-class honours in an Examination covering—

1. The subject-matter of—

(i.) The subjects of Group C of the course for the Degree of Bachelor of Commerce;

(ii.) Economics I., II., and III.;

(iii.) One or more economic, commercial, or technical subjects for intensive study, as the Faculty shall direct from time to time; and

2. The preparation and a satisfactory dissertation on a subject approved by the Professor of History and Economics and studied under the direction of a tutor or tutors assigned by him; and

(*b*) They submit a satisfactory thesis as provided in clause 2 of Statute XX.

2. Masters of Commerce who satisfy the Faculty that they have had six years' practical experience of such a nature as to render them competent to act as public accountants themselves, and who have obtained credit for all the subjects in Group C of the course for the Degree of Bachelor of Commerce, may have their certificates endorsed accordingly, and may indicate such endorsement by adding "(Accountancy)" after the name of their degree: thus, "M.Com. (Acctcy.)."

DEGREE OF DOCTOR OF SCIENCE.

On page 89, in paragraph 6, line 7, *for* "obtaining such degree" *substitute* "his admission ad eundem gradum."

ROBERT PHILP SCHOLARSHIP.

The following to be placed as a *footnote* on page 89:—

"Owing to reduction in rate of interest on University investments, the value of the Scholarship will be not more than £100 per annum until otherwise advised."

CLASS I. EXAMINATION.

On page 104, in paragraph 4, *for* "British History" *read* "History"; and in paragraph 5 *delete all the words* after "Philosophy (Part I.)."

LIBRARY RULES.

In Rule 2, on page 116, *after* the word "Members," *insert* "Professors, Lecturers, and Superior Officers."

In Rule 3 *for* "Thursdays" *read* "Fridays," and *for* "Fridays" *read* "Thursdays."

Instead of Rule 5 (*a*), the *following:*—

> "Books may be borrowed, without charge or subscription, by Members, Professors, Lecturers, and Superior Officers of the University, and by undergraduates attending the regular courses of the University. With the approval of the Chairman of the Library Committee, non-members of the University may borrow books on the payment of a subscription of a guinea a year. External students shall not have the right to borrow books from the Library."

BRITISH PASSENGER LINES' FREE PASSAGE SCHEME FOR UNIVERSITY GRADUATES.

To Clause 5, on page 135, *add*—

> "The Passenger Conference advises that Rhodes Scholars are not eligible for Free Passages; hence applications will not be entertained from Rhodes Scholars."

REVISED REGULATIONS.

1. Passages will be awarded only to graduates who satisfy the University that they will have sufficient funds to enable them to devote their whole time abroad to study and research, and give an undertaking to do so.

2. Except in leisure hours and in University Vacations, paid employment must not be undertaken unless the employment is in itself necessary to the study or research proposed by the passage-holder.

3. Passage-holders will be expected to spend at least two years abroad.

4. Except in special circumstances, passages shall not be tenable by married persons.

5. Graduates to whom passages are awarded must sign an undertaking that they will, on completion of their courses, return to Australia. Exemption from this regulation may, in special circumstances, be granted by the Conference.

6. In the case of Engineering students, it is recognised that some of the time will necessarily be spent in shops and yards of engineering firms; but the Associated Lines have expressed a wish that where possible such students should supplement their practical work by attending a University.

7. Subject to the above conditions, the University Senate will be guided in its selection of candidates by giving preference to graduates who, although possessing sufficient means to live in Europe, could not afford to pay for their sea-passages both ways.

McDERMOTT MEMORIAL PRIZE.

Conditions, on page 149, *to read*—

"1. Subject to the provisions of Clause 3, the Prize shall be awarded annually to the candidate for the Degree of Bachelor of Arts with Honours in English Language and Literature or in Modern Languages and Literature who shows the highest proficiency in the section of the Final Honours Examination on English Literature common to both Schools.

"2. The Darnell Professor of English Language and Literature shall report to the Senate, through the Dean of the Faculty of Arts, at the end of the Honours Examination period the name of the candidate to whom he recommends the Prize to be given.

"3. If in the opinion of the examiners in English in any year no candidate reaches a standard sufficiently high to warrant the award, the Prize shall not be awarded in that year, and the amount thereof shall be added to and shall become part of the principal sum."

GERTRUDE MARY WOOLCOCK MEMORIAL PRIZE.

Condition 1, on page 151, *to read*—

"The Prize shall be awarded annually in books to the candidate who, sitting for the Final Honours

Examination in Classics for the first time, shows the greatest proficiency in the Greek section of the Examination."

WILLIAM WOOLCOCK MEMORIAL PRIZE.

After "£50," on page 152, *add*—

"(Increased in 1932 to £100)."

HENRY MONTEITH PRIZE.

In Conditions 1, 2, and 3, on page 154—

For "candidate" *read* "undergraduate."

Condition 1 *to read*—

"The Prize shall be awarded annually in books on the results of the examination in English (Part II.) to the undergraduate who, sitting for that subject for the first time, is most proficient in the English Literature section of the examination."

EDWARD TAYLOR PRIZE.

Founded in 1934 by a gift of £100 from the Queensland Bowling Association to establish a Prize to be provided from the annual interest, and to be called the "Edward Taylor Memorial Prize" in commemoration of Mr. Edward Taylor, a Patron and a veteran member of that Association.

CONDITIONS.

1. The said sum of £100 shall form the endowment for a Prize to be called the "Edward Taylor Memorial Prize," and shall be invested as the Senate shall from time to time direct.

2. The Prize shall be awarded annually to a student in the Faculty of Science, who, sitting for the first time, completes the Second Year of his Course at the November Examinations.

3. The Prize shall be awarded to the student who secures the best pass in Chemistry II., provided that no award shall be made if in the opinion of the Faculty, there is no candidate of sufficient merit.

4. The Prize shall consist of books, which may be selected by the candidate with the approval of the Dean of the Faculty. The books shall be text-books and reference books recommended for Third Year subjects in the student's course.

5. If in the opinion of the examiners in Chemistry in any year, no candidate reaches a standard sufficiently high to warrant the award, the Prize shall not be awarded in that year; and the amount shall be added to and so become part of the principal sum.

ACADEMIC COSTUME.

RULES.

Chancellor.

Cap: Cloth trencher with gold tassel.

Gown: Ordinary Chancellor's gown—or Habit of his degree—with a black silk stole embroidered with seven blue Maltese Crosses encircled with gold braid.

Vice-Chancellor.

Cap: Similar to Chancellor.

Gown: Similar to Chancellor, but with five Maltese Crosses on the stole.

Members of Senate.

Cap: Similar to Chancellor.

Hood: Of degree, if any.

Gown: A black silk or stuff gown with tippet of same material. The tippet to be edged with gold braid on a foundation of red silk ribbon and the sleeves caught up in front with gold braid on a similar foundation, about six inches in length, and gold buttons.

Ex-members of Senate.

Cap: Cloth trencher with black silk tassel.

Hood: Of degree, if any.

Gown: As for Members of Senate.

Professors.

Cap: Cloth trencher with black silk tassel.

Gown: A black silk gown.

Hood or Tippet of degree, if any.

Graduates.

Gown:

Bachelor: Black stuff gown of Cambridge B.A. pattern.

Master: Black stuff or silk gown of Cambridge M.A. pattern.

Doctor: (*a*) Black silk gown as for Masters.

(*b*) Festal gown of scarlet cloth or silk as for Cambridge Sc.D. faced with silk of Faculty colour.

Master: Black silk fully lined with silk of Faculty colour.

Hood of Cambridge pattern.:

Bachelor: Black silk lined to depth of four inches with silk of Faculty colour.

Master: Black silk fully lined with silk of Factulty colour.

Doctor: Red silk or cloth fully lined with silk of Faculty colour.

Trencher:

Bachelors and Masters: Black cloth with black tassel.

Doctors: Black velvet with short black silk tassel.

The standard colours for hoods and facings for the separate Faculties shall correspond as nearly as possible with colours and numbers of the British Colour Council Dictionary of Standard Colours.

Hoods and facings shall be constructed of corded silk.

FACULTY COLOURS (BRITISH COLOUR COUNCIL).

	Colour	Number
Arts	Pearl White	151
Science	Ultramarine	148
Engineering	Claret	36
Agriculture	Emerald	213
Commerce	French Gray	188
Law	Spectrum Violet ..	214
Applied Science ..	Steel Blue	44
Medicine	Saffron	54
Dentistry	Rose Pink	32
For Doctors' Robes and Hoods ..	Union Jack Red	210

Warden of the Council.

Cap: Black cloth trencher with black silk tassel.

Hood: Of Degree, if any.

Gown: Silk, Oxford or Cambridge B.A. pattern, with a Maltese Cross 1¼ inches square on each lapel 4 inches below top of shoulder.

Member of Council.

Cap: Black cloth trencher with black tassel.

Gown: Stuff, Oxford or Cambridge B.A. pattern, with a strip of cardinal red velvet 2 inches wide and 4 inches long across each lapel 4 inches below top of shoulder.

*Diploma of Education.**
(*If a graduate.*)

Cap and Gown: Similar to B.A.

Hood: As for B.A., with an addition of red silk cord edging.

Undergraduates.

Scholars:

Cap: Black cloth trencher with black tassel.

Gown: Stuff, similar to Sydney Scholar's gown.

Other Matriculated Persons:

Cap: Black cloth trencher with black tassel.

Gown: Stuff, similar to Sydney gown.

Superior Officer not being a Graduate.

Cap: Cloth trencher with black silk tassel.

Gown: A black silk gown of the description worn by civilians not holding degrees.

The term "superior officer" shall be taken to include the Registrar, the University Solicitor, the University Organist, and such other officers of the University as the Senate may from time to time determine.

* No provision has yet been made for granting this diploma.

Diploma in Mechanical and Electrical Engineering.

Students:

Cap: Black cloth trencher with black tassel.

Gown: Similar to Oxford Commoner's gown.

Holders of Diploma:

Cap: Similar to student's cap.

Gown: Similar to student's gown, with addition of yellow silk shoulder-straps.

Janitor.

Cap: Black cloth cap, distinctive pattern, with blue Maltese Cross above peak.

Cap (to be worn with gown): Velvet cap with blue silk cord.

Gown: Similar to that worn by vergers.

Academic dress shall be worn by all Undergraduates when attending lectures or within University precincts, and at all University ceremonials. This rule may be relaxed by any Faculty, except as to University ceremonials.

NOTE.—Academic Dress in accordance with the above requirements may be obtained from Rothwells Outfitting Limited, Edward street, Brisbane.

GENERAL RULES.

I.—Academic Year.

1. The Academic Year shall consist of three Terms and two Examination Periods, exclusive of the period occupied by Public and other Examinations not mentioned hereunder.

II.—Terms.

2. The First Term shall commence on the tenth Monday of the year and shall end on the Saturday preceding the twenty-first Monday.

3. The Second Term shall commence on the twenty-third Monday of the year and shall end on the Saturday preceding the thirty-second Monday.

4. The Third Term shall commence on the thirty-fifth Monday of the year and shall end on the Tuesday following the forty-fourth Monday.

III.—Examination Periods.

5. The Annual Examination shall commence on the forty-fifth Monday of the year, and shall extend over a period of not more than three weeks. During this period the following Examinations shall be held:—

(*a*) The Annual Examination for Degree Courses; for the Class I. Examination of the Department of Public Instruction; for the Commerce Certificate and the Diploma of Commerce; and for the Diploma of Journalism.

(*b*) The examination for graduation with Honours in the Faculty of Science, with the exception of Mathematics, in which the examination will be held in February.

(*c*) The examination for higher degrees in the Faculty of Science.

6. There shall also be an examination period commencing on the eighth Monday of the year and extending over a period of not more than two weeks. During this period the following examinations shall be held:—

(*a*) The Supplementary Annual Examination.

(*b*) The examination for graduation with Honours in the Faculties of Arts, Engineering, Commerce, and Agriculture, and in Mathematics in the Faculty of Science; and

(*c*) The examination for higher degrees in these Faculties.

IV.—Supplementary Examination.

7. Except in the Faculties of Arts and Commerce, candidates who at the Annual Examinations have failed to secure a pass for their year, or, if evening students, credit in two subjects, may proceed to a Supplementary Examination in the February following, if granted permission by the Faculty.

Students of Faculties in which Supplementary Examinations have been abolished are hereby notified that no application for a deferred examination will be entertained unless made not later than the date of the examination in the subject or part of a subject in respect of which the application is made. Each application must be supported by evidence bearing upon the grounds on which the application is made, and the evidence must be despatched or delivered to this Office not later than three days after the application.

V.—Enrolments.

8. All enrolments for Courses shall be made on forms provided for the purpose, and shall be lodged with the Registrar not later than—

(*a*) The seventh Monday of the year in the case of external students (except in the case of candidates sitting for the supplementary or deferred examinations);

(*b*) The ninth Monday of the year in the case of day and evening students.

9. An entry for a Supplementary Examination in February shall be treated as a provisional enrolment for the year, and the candidate shall be permitted to submit his enrolment in final form without delay after his results in the Supplementary Examination have been communicated to him.

10. A student's selection of subjects must be approved by the Dean of the Faculty before the enrolment becomes effective.

11. Each day student shall interview the Dean of his Faculty in regard to his work for the year not later than the Saturday immediately preceding the first day of the First Term.

12. Late enrolments may be accepted, at the discretion of the Dean of the Faculty concerned, up to but not after

the Saturday in the second week of the First Term. An additional fee of 10s. must be paid in each case where a late enrolment is accepted.

13. With the approval of the Dean of his Faculty, a student may add to the number of subjects selected by him for the year, or substitute one subject for another, at any time up to but not after the Saturday in the second week of the First Term. He may cancel his enrolment in any subject at any time during the year.

VI.—Enrolment Exemptions.

14. A candidate who enrolled for a subject but failed to pass the concluding examination therein may, if the Faculty approves, be exempted from enrolment in the subject the following year. He may proceed to examination again in the subject at the next Annual Examination upon submitting an entry and paying a fee corresponding to the prescribed Supplementary Examination fee.

VII.—Fees for Enrolments.

15. All fees for enrolments shall be paid in advance, either annually in one sum or in three terminal instalments. Annual and First-Term payments must be made not later than the Saturday preceding the beginning of the first term. When not paid in advance at the beginning of the year, fees for Second Term must be paid on or before the Saturday preceding the beginning of that term, and fees for the Third Term must be paid, together with the fee for the Annual Examination, on or before the 31st August.

16. Any student who does not pay the prescribed fees in accordance with the provisions of Rule 15 shall be required to pay, in addition, a late fee of 10s. If payment is not made within two weeks after the due date, the late fee shall be increased to £1.

17. A student shall not be entitled to have his name entered on the roll of any class in any subject until he has paid the prescribed fees therefor.

VIII.—Time-Tables.

18. The time-tables of lectures for the various Faculties shall be published in the Calendar. Any alteration that it may be necessary to make in the time-table as published

will be notified on the University Notice Board from time to time.

IX.—Examination Entries and Time-Tables.

19. Each candidate for the Honours and Annual Examinations in November, or for the Honours Examination in February, or for examination for admission to Higher Degrees, shall lodge his entry, in the prescribed form, with the Registrar on or before the 31st August preceding such examination. He shall at the same time submit the duplicate deposit slip covering his examination fee and his fees for the Third Term.

20. Each candidate who fails at the Annual Examination in November, and who is entitled to sit for a Supplementary Examination in February, shall lodge with the Registrar, not later than the 10th December preceding, his entry for the Supplementary Examination together with duplicate deposit slip for the prescribed Supplementary Examination fee.

21. No examination entry shall be accepted until the prescribed fees have been paid.

22. A late entry may be accepted from a candidate at any time within seven days after the prescribed date, upon payment by the candidate of a late fee of 10s. in addition to the usual fee.

23. The time-table for the Annual and Honours Examinations in November shall be prepared and posted on the Notice Board of the University not later than the 30th September.

24. The time-table for the Supplementary and Honours Examinations in February shall be prepared and posted on the Notice Board of the University not later than the 31st January.

X.—Examination Results.

25. Lists of candidates in the several subjects shall be prepared by the Registrar and furnished to the Examiners concerned. The results of the candidates shall be entered by the Examiners in these lists.

26. The examination lists as presented by the Examiners shall be placed before the Board of Examiners of the

Faculty concerned. The Board shall prepare a schedule containing the complete results; and this schedule, after verification by the Dean, shall be submitted for the confirmation of the Faculty. The results shall thereafter be furnished to the individual students; shall be laid before the Senate at its next meeting; and shall be duly entered in the University records.

XI.—Class Lists.

27. A pass in each subject may be credited as "pass" and "pass with merit."

XII.—Theses for Master's Degree.

28. Each candidate desiring to present a thesis for the Master's Degree shall consult the Dean of his Faculty as to the choice of subject for the thesis, at least six months before the date on which the thesis must be submitted. He must lodge two copies of his thesis with the Registrar not later than the eighth Monday of the year in which he desires to proceed to the Master's Degree.

XIII.—Applications for Admission to Degrees.

29. Each student desiring to be admitted to a Bachelor's Degree shall make application in the prescribed form and pay the prescribed fee at least fourteen days before the date fixed for the conferring of degrees.

30. A graduate desiring to proceed to a higher degree, who is qualified to do so, shall make application in the prescribed form and pay the prescribed fee not later than the 28th February.

XIV.—Non-matriculated Students.

31. Any person who is not less than 16 years of age, and who in the opinion of the Dean of the Faculty concerned is competent to undertake the work, may be permitted to enrol for the course in any subject, upon complying with the usual enrolment conditions and paying the prescribed fees. Upon approval by the Faculty concerned, special enrolments for parts of courses may be granted at fees approved by the Senate.

XV.—Attendance at Lectures.

32. (*a*) Students compelled to be absent from more than one lecture shall as soon as practicable notify the Professor or Lecturer concerned.

(*b*) The transfer to external status shall not generally be approved if, before applying, the student has been absent from more than three lectures.

XVI.—General.

33. Nothing in these Rules contained shall be construed to prevent any Faculty from holding any examination on any subject or subjects at such time as such Faculty may think fit.

XXIII.—STATUTE RELATING TO FEES.

1. The fees to be paid to the Registrar by all persons who, on and after the 1st January, 1927, enter the University of Queensland or attend the classes and lectures thereat for examinations for the granting of Degrees, Diplomas, and Certificates, and for general purposes, shall be as set out in the Schedule hereto.

2. It shall be lawful for the Senate to make provision by regulation for the time and manner in which the fees shall be paid.

3. Nothing in this Statute contained shall be deemed to prevent the Senate in proper cases from deferring the payment of fees for such period as may be thought fit.

The Schedule.

The following fees shall be payable:—	£	*s.*	*d.*
(*a*) Matriculation	1	1	0
(*b*) Admission *ad eundem statum*	1	1	0
Single Subjects. (Three Terms in each Year.)			
(*c*) Lecture fees for a single subject in any Faculty, except for certain subjects in the Faculty of Engineering as shown in clause (*e*), by both matriculated and non-matriculated students, whether for degree purposes or otherwise, per term	2	2	0
(*d*) Laboratory fees for a single subject in any Faculty, except in the Faculty of Engineering, by persons who have not previously completed a degree or other approved course at the University—			
(i.) For a first-year subject, per term	2	2	0
(ii.) For a second-year subject, per term	4	4	0
(iii.) For a third-year subject, per term	6	6	0

(*e*) Laboratory fees for a single subject in the Faculty of Engineering, except as provided in clause (*f*) hereof, in any year, per term .. .. .. £ 2 2 0

(NOTE.—Persons who have completed a degree or other approved course at the University and were entitled to the composition rate of fees for such course will be charged a proportionate amount of the composition rate of laboratory fees for single subjects taken post-graduately.)

(*f*) Fees for single subjects in the Faculty of Engineering—

Subject.	Year.	Fee per Term.
Technical Drawing and Engineering Design I.	1	£2 2s.
Heat Engines I.	1	£1 1s.
Applied Mechanics	2	£4 4s., including laboratory work
Heat Engines II.	2	£4 4s., " " "
Civil Engineering I... ..	3	£2 2s.
Testing Materials	3	£2 2s.
Surveying I.	3	£4 4s., including field work.
Hydraulics	3	£4 4s., including laboratory work.
Engineering Design II. ..	2	£3 3s.
Engineering Design III. ..	3	£3 3s.
Surveying II.	4	£4 4s., including field work.
Civil Engineering II. ..	4	£6 6s., including Electrical Engineering and laboratory work.
Engineering Design	4	£3 3s.
Engineering Chemistry ..	3	£4 4s., including laboratory work.
Applied Electricity	3	£4 4s. " " "
Heat Engines III.	3	£4 4s. " " "
Mechanical and Electrical Engineering	4	£6 6s., complete course only.

Complete Courses. £ *s. d.*

(Three Terms in each Year.)

(*g*) Composition fees for complete courses leading to degrees in the Faculties mentioned—

(i.) Faculties of Arts and Commerce (including diploma courses in Commerce and Journalism, and other approved courses in those Faculties)—

Lecture Fees—

For a single subject, per term 2 2 0

For more than one subject, per subject per term 1 8 0

Laboratory Fees—

For each subject involving laboratory work, per term 1 8 0

(ii.) Faculties of Science (Pure) and Agriculture, in any year—

Lecture fees, per term 4 4 0

Laboratory fees, per term 2 16 0

	£	s.	d.
(iii.) Faculties of Science (Applied) and Engineering, in any year—			
Lecture fees, per term	4	4	0
Laboratory fees, per term	3	3	0
(iv.) Evening (Diploma) course in Engineering, an inclusive fee—			
For a single subject the minimum fee, per term	2	2	0
When more than one University subject is taken, per subject, per term	1	3	0
(v.) Faculty of Dentistry, including practice at Dental Hospital—			
First and second years—			
Lecture fees, per term	5	19	0
Laboratory fees, per term	7	0	0
Third year—			
Lecture fees, per term	5	12	0
Laboratory fees, per term	7	7	0
Fourth year—			
Lecture fees, per term	4	11	0
Laboratory fees, per term	8	15	0

(NOTE.—Upon approval by the Faculty concerned, special enrolments for parts of courses may be granted at fees approved by the Senate. In the case of non-matriculated students taking an approved course of study in any Faculty, if the fees chargeable for the subjects of the course exceed the composition fee, the ordinary composition fee will be charged.)

Microscope Fees.

(*h*) For each subject involving the use of a microscope in any Faculty and in any year, per term	0	7	0

(NOTE.—Students who have microscopes of their own, of an approved pattern, will be exempted from microscope fees.)

General Purposes Fees.

(*i*) General purposes fees payable by all students attending day lectures, but optional for evening and external students—			
(i.) Men—			
First year, for year	3	3	0
Each subsequent year, for each year	2	2	0
(ii.) Women—			
First year, for year	2	12	6
Each subsequent year, for each year	2	2	0

(NOTE.—The fees for men shown in (*i*) (i.) are minimum amounts. Men taking part in sporting activities other than those of the Athletic,

Rifle, and Swimming Clubs must pay an additional £1 1s. per year.)

Examination Fees.
(University Examinations.)

	£	s.	d.
(*j*) Examination fees—			
(i.) Annual Degree Examination—			
For subjects in which assistance by way of lectures or in other ways was received during year, covering any number	1	1	0
For subjects in which assistance was not received during year, for each subject	2	2	0
(ii.) Honours Examination, where such examination is not part of but is additional to the Annual Degree Examination	1	1	0
(iii.) Supplementary Degree Examination—			
For not more than two subjects, minimum fee ..	2	2	0
For each subject over two, in addition to the minimum fee	1	1	0
(iv.) Supplementary Matriculation Examination—			
For not more than two subjects, minimum fee ..	2	0	0
For each subject over two, in addition to the minimum fee	0	10	0
(v.) Adult Matriculation Examination—minimum inclusive fee	2	0	0

Graduation Fees.

(*k*) Graduation fees, payable on application for admission or, in the cases of Masters and Doctors with thesis, entry for examination or application for exemption—			
(i.) For graduation—			
Bachelor	3	3	0
Master	5	5	0
Doctor—			
examination	15	15	0
admission to degree	5	5	0
(ii.) For A.A.U.Q. Certificate	2	2	0
(iii.) For admission *ad eundem gradum*	3	3	0

(NOTE.—The fees shown for Masters cover both any necessary examination and admission to graduation. The graduation fees of candidates who fail on the first occasion will remain to their credit, but such candidates will be required to pay another examination fee of £1 1s. if they wish to present themselves again.)

Fees for Original Research.

(*l*) Graduates of the University of Queensland may, upon the recommendation and under the direction of the Professor or Lecturer in Charge of any

department, undertake original research work in that department without charge, other than payment for such material and special attendance as may be considered necessary by the Head of the Department.

Applications must be made to the Registrar and approved by the Chancellor.

Modern Language Courses.
(Institute of Modern Languages.)

	£	s.	d.
(*m*) Lecture fees for any one subject—			
An elementary course, for the course	1	10	0
An intermediate course, for the course	2	2	0
An advanced course, for the course	3	3	0
Examination fee for each subject	1	1	0

Other Miscellaneous Fees.

(*n*) Deposits on apparatus—			
Biology—			
For first-year students, for year	1	8	0
For second-year students, for year	0	12	0
Chemistry—			
For first-year students, for year	1	1	0
For second-year students (including third-year apparatus)	3	7	9
(*o*) Penalties—			
For late enrolment for courses	0	10	0
For late payment of fees—			
Within two weeks after due date	0	10	0
More than two weeks after due date ..	1	0	0
For late entry for examination	0	10	0

Public Examination Fees.

(*p*) Senior Examination—			
Minimum fee for not more than six Senior subjects	2	0	0
For each Senior subject over six	0	7	6
For each Junior subject, irrespective of the number of Senior subjects taken	0	5	0
(*q*) Junior Examination—			
Minimum fee for not more than eight subjects ..	1	10	0
For each subject over eight	0	5	0
Fee for holders of Junior certificates entering for a limited number of subjects from Groups VI. to IX., not included in certificates—			
For not more than two subjects	0	10	0
For each subject over two, in addition	0	5	0

(*r*) Music and Art of Speech Examinations—
(As prescribed, and varied from time to time, by the Australian Music Examinations Board—see Music Manual.)

(*s*) Reports for Heads of Schools—	£	*s.*	*d.*
Senior—			
(*a*) For any one subject where the number of candidates is ten or less, a minimum fee of ..	3	3	0
(*b*) For every three candidates over ten, in addition to the minimum fee	0	10	6
Junior—			
(*a*) For any one subject where the number of candidates is ten or less, a minimum fee of	2	2	0
(*b*) For every five candidates over ten, in addition to the minimum fee	0	10	6
Detailed reports on candidates' work, per candidate, per subject	0	10	6
Revaluation of candidates' papers, in any subject, per paper	0	2	6

FINAL HONOURS EXAMINATION, 1935.

CLASS LISTS.

FACULTY OF ARTS.

(*a*) Classics:

Class I.—Elsie Harwood.
Maude Joan Woolcock.

Class II.—None.

Class III.—None.

(*b*) Modern Languages and Literature—

Class I.—None.

Class II.—Alma Elizabeth Hartshorn.
Frances Ida Seeley.

Class III.—Lionel Mitchell Powell.

(*c*) Philosophy—

Class I.—Gordon James.

Class II.—None.

Class III.—None.

(*d*) Mathematics—

Class I.—None.

Class II.—Norman James Loveday.

Class III.—None.

(*e*) History—

Class I.—Phyllis Lillian Courtice.

Class II.—Frederick David Curlewis.

Class III.—None.

FACULTY OF SCIENCE.

GEOLOGY AND MINERALOGY.

Class I.—None.

Class II.—Clement Leslie Knight.

Class III.—None.

PHYSICS.

Class I.—None.

Class II.—John Arthur Thompson.

Class III.—None.

FACULTY OF AGRICULTURE.

Class I.—Thomas Hugh Strong.

Class II.—None.

Class III.—None.

FACULTY OF ENGINEERING.

MECHANICAL AND ELECTRICAL ENGINEERING.

Class I.—Roy Thomas Hinckley.

Class II.—August Shaw Gehrmann.

Class III.—None.

CIVIL ENGINEERING.

Class I.—None.

Class II.—Ernest Frederick Boyle.
Leslie Grant Fraser.

Class III.—None.

DEGREES CONFERRED IN 1935.

BACHELOR OF ARTS.

Bartholomew, John Edwin
Bick, Una Gailey
Borchardt, Frederick Thomas
Broe, Muriel Rose
Courtice, Phyllis Lillian
Cronin, Clarence Edmund
Curlewis, Frederick David
Dorfeld, Albert
Dunn, Lex Seymour
Forder-Jones, Jack Henry David
Gibson, Nancy Jean
Grehan, Bryan James
Harland, Doris Eileen
Hartshorn, Alma Elizabeth
Harwood, Elsie
Hillard, Trevor John
James, Gordon
Kirke, Alexander Miles
Kirke, George Kinloch
Lecker, Johanna
Lee, Charles Que Fong
Lettice, Peter
Loveday, Norman James
Lynch, John
MacDonald, Ellen Agnes
Mahoney, John Joseph
Maximoff, Nina
Mills, Betty
O'Callaghan, James Patrick
Pearce, Edward Tom Stanley
Pingel, Mabel Meddalton
Powell, Lionel Mitchell
Seeley, Frances Ida
Stumm, Harley Charles
Tully, William Frank
Warne, Minnie Constance Kathleen
Whitehouse, Jean Marion Frances
Wood, Edward James Ferguson
Woolcock, Maude Joan
Wordsworth, Arthur Allan

MASTER OF ARTS.

Morrison, Allan Arthur
Robinson, Phyllis Gertrude
Shield, Barbara

BACHELOR OF COMMERCE.

Hopkins, Henry Hollis
Viertel, Charles

BACHELOR OF SCIENCE.

Archibald, Lorna Margaret
Brown, George Frederick
Cribb, Harold Gordon Smart
Drew, Desmond Joseph
Elliot, Joan MacDonald
Fraser, Keith Tolmie
Hall, Graham
Hansen, Charles Thomas
Harvey, James Meiklejohn
Knight, Clement Leslie
Lahey, Francis Norman
Manson, Joyce
Sharples, Olive Zelda
Thompson, John Arthur

MASTER OF SCIENCE.

Gillam, Noel Charles
McDougall, William Alexander
Oertel, Alfred Charles

DOCTOR OF SCIENCE.

Roberts, Frederick Hugh Sherston

BACHELOR OF APPLIED SCIENCE IN INDUSTRIAL CHEMISTRY.

Haenke, Willis Lynn
Porter, John Barwick

BACHELOR OF ENGINEERING.

Boyle, Ernest Frederick
Fraser, Leslie Grant
Gehrmann, August Shaw
Hinckley, Roy Thomas
McMaster, William
Michod, Richard Noel Hope
Saint-Smith, John Cecil
Thomas, Percy Harold

MASTER OF ENGINEERING.

Corbett, Arthur Hardie
Dobbie, Leonard Graham

BACHELOR OF SCIENCE IN AGRICULTURE.

Callaghan, Patrick Francis
Strong, Thomas Hugh
Warner, Thelma

MASTER OF SCIENCE IN AGRICULTURE.

Bryan, William Walter.

LICENTIATE IN DENTAL SCIENCE.

Cran, James Alexander
Thurecht, Alex Jacob
Weedon, Cyril Cuthbert de Vaux

AD EUNDEM GRADUM.

MASTER OF ARTS.

Brigden, James Bristock
Melbourne, Alexander Clifford Vernon
Robinson, Frederick William

DOCTOR OF MEDICINE.

Cilento, Sir Raphael.

DOCTOR OF SCIENCE.

Bagster, Lancelot Salisbury
Herbert, Desmond Andrew

DOCTOR OF ENGINEERING.

Bradfield, John Job Crew.

DOCTOR OF LETTERS.

Copland, Douglas Berry.

HONORIS CAUSA.

BACHELOR OF ENGINEERING.

Munro, Andrew Koss.

DOCTOR OF LAWS.

Sir Leslie Orme Wilson, G.C.S.I., G.C.I.E., C.M.G., D.S.O; John Lundie Michie, M.A.; William Forgan Smith.

FOUNDATION SCHOLARSHIPS (Government).

1934.

Beth Amy Beeston
John Pierce Callaghan
Joseph Brooke Agnew Clancy
John Lindsay Clayton
Robert James Diamond
Henry Maurice Finucan
Jerome Hugh Mariano Frewen
Maxwell Jackson Guyder
Noel Charles Hancox
Godfrey Louden Hubbard
Ernest Harold Hughes
Kenneth Macalpine
Alfred Glen McCready
Dino Anthony Morelli
Edmund Muller
Leslie G. Newton
Harrold Graham Pace
John Foulkes Richardson
Stanley Robert Siemon
Robert Ewing Woodhead

1935.

Harold Gordon Bradbury
Maurice William Blank
Joan Constance Chadwick
William Edmund Cuppaidge
Alexander John Grant
Patrick William Grogan
Winifred Hanger
Veronica Maud Mahoney
Walter Ernest Muxworthy
Robert William Edgar McNicol
Thomas Russell Neville
James Kenneth Newman
Chester, James Parker
Harold Kerr Powell
George Albert Preston
Alan Alexander Ross
Aubrey John Schindler
Margaret Isabella Rutherford Scott
Wilfred John Simmonds
Harry Gilmore Wilson

1935.

*GOLD MEDALS (Government)

1935—No award.

*TRAVELLING SCHOLARSHIP (Government).

*SCHOLARSHIP FOR ENGINEERING (Government).

*SCHOLARSHIP FOR THE ENCOURAGEMENT OF ORIGINAL RESEARCH (Government).

THE THOMAS MORROW PRIZE.

1935—No award

The Subject of the Essay for 1936—

(i.) The Literary Value of Journals and Records of Australian Explorers; or

(ii.) Social and Literary Influence of the Magazine in Australia; or

(iii.) The Work and Influence of Charles Harpur.

THE LIZZIE HEAL-WARRY PRIZE.

1935—Alice Shina Forbes MacKillop.

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* Grant suspended until further notice.

† Bronze replica.

THE ARCHIBALD SCHOLARSHIP.

1935—No award.

The Subject of the Essay for 1936—"Child Endowment and Family Allowances." (Entries close on Monday, 22nd February, 1936.)

THE RHODES SCHOLARSHIP.

1936—Ronald John Atkinson.

THE ROBERT PHILP SCHOLARSHIP.

1936—Lawrence Joseph Lynch.

THE WALTER AND ELIZA HALL ENGINEERING FELLOWSHIP.

1934—Ian McColl Stewart, B.E.

THE WALTER AND ELIZA HALL FELLOWSHIP IN ECONOMIC BIOLOGY.

1934—Stanley Thatcher Blake, M.Sc.

THE JOHN THOMSON LECTURESHIP.

1936—Professor R. W. H. Hawken, B.A., M.E., M.Inst.C.E., M.I.E. (Aust.).

THE SIR THOMAS McILWRAITH ENGINEERING SCHOLARSHIPS.

1935.

Roy Parish Goodman.
Ronald John Atkinson
Raymond Charles McCorkell
Clive Tunley McCorkell

THE FORD MEMORIAL MEDAL.

1934—No award.

The Subject of the Poem for 1936—"A Song on—
(i.) A University Team (in some sport); or
(ii.) The University Crew."

THE ALEXANDER AND ELIZABETH RAFF MEMORIAL SCHOLARSHIP.

1935—Meredith Gordon Francis Donnon.

P. J. McDERMOTT MEMORIAL PRIZE.

1935—Alma Elizabeth Hartshorn.

JOHN MURTAGH MACROSSAN MEMORIAL LECTURESHIP.

1935—Professor J. P. V. Madsen, B.E., D.Sc.

GERTRUDE MARY WOOLCOCK MEMORIAL PRIZE.

1935—Maude Joan Woolcock.

EDWARD TAYLOR MEMORIAL PRIZE.

1935—John Patrick Callaghan.

WILLIAM WOOLCOCK MEMORIAL PRIZE.

1935—Mervyn Powell.

SLADE SCHOLARSHIP.

1935—Edwin Warner Brandon Da Costa.

HENRY MONTEITH PRIZE.

1935—Gwendolyn Clarke.

THE McNAUGHTON SCHOLARSHIPS.

(Founded in 1931 by a bequest of £2,920 under the Will of Duncan McNaughton, of Roma.)

Conditions.

(a) The Kate McNaughton of Roma Scholarship.

1. The Scholarship shall be tenable in any one of the following subjects or groups of subjects:—Classics, English Language and Literature, History, Economics, Mathematics, Modern Languages, and Philosophy.

2. The Scholarship shall be awarded annually to the best candidate who, having secured at least six units of credit towards his Bachelor's Degree, proposes to pursue an Honours Course within the University in any of the abovementioned subjects or groups of subjects.

3. The Scholarship shall be awarded on the recommendation of the Faculty of Arts before the end of each academical year. Each candidate's record throughout his course and his general fitness for profiting by further study shall be taken into account in making the award.

4. Candidates must submit their applications so as to reach the Registrar on or before the 31st October. They must state in their applications what Honours Course they intend to pursue.

5. If in any year no candidate reaches a standard sufficiently high to warrant the award, the Scholarship shall not be awarded in that year, and the amount thereof shall be added to and shall become part of the principal sum.

1935—Gwendolyn Clarke
Henry Maurice Finucan
John Ffoulkes Richardson } aeq.

(b) The Duncan McNaughton Scholarship.

1. The Scholarship shall be tenable in any one of the following subjects:—Botany, Chemistry, Geology, Mathematics, Physics, Zoology.

2. The Scholarship shall be awarded annually to the best candidate who, having completed the requirements for the Pass Degree of Bachelor of Science, proposes to pursue his studies for another year to complete an Honours Course in Science.

3. The Scholarship shall be awarded on the recommendation of the Faculty of Science before the end of each academical year. Each candidate's record throughout his course and his general fitness for profiting by further study shall be taken into account in making the award.

4. Candidates must submit their applications so as to reach the Registrar on or before the 31st October. They must state in their applications what Honours Course they intend to pursue.

5. The Scholar shall be required to devote not more than three hours per week during term (apart from his post-graduate studies) to such services within the Department concerned as may be approved by the Faculty of Science on the recommendation of the Head of the Department in which the post-graduate work is being done. In consideration of these services, he shall be exempted from the payment of lecture fees.

6. If in any year no candidate reaches a standard sufficiently high to warrant the award, the Scholarship shall not be awarded in that year, and the amount thereof shall be added to and shall become part of the principal sum.

1935—Maurice Ivan Stebbins } aeq.
Thomas Heywood Connah }

THE PRIEST MEMORIAL PRIZE.

(Founded in 1932 by a gift of £200 from the Mother of Herbert James Priest, B.A., B.Sc., Lecturer in Mathematics in the University of Queensland, who died on the 3rd December, 1930.)

1. The interest on the above sum shall be utilised in providing a Prize to be awarded annually on the results of the examination in Applied Mathematics, Part II., to the undergraduate who, sitting for the examination in that subject for the first time, is most proficient in the Dynamics section of the subject. The Prize shall be awarded in books to be selected by the winner and approved by the President of the Board of Faculties.

2. The President of the Board of Faculties, after consultation with the Professor of Mathematics, shall report to the Senate at the end of the Annual Examination period the name of the undergraduate to whom he recommends the Prize to be given.

3. If in any year the President of the Board of Faculties, after consultation with the Professor of Mathematics, reports that no undergraduate has reached a standard sufficiently high to warrant the award, the Prize shall not be awarded in that year, and the amount thereof shall be added to and become part of the principal sum.

1935—Henry Maurice Finucan } aeq.
Maxwell Jackson Guyder }

FREEMASONS' SCHOLARSHIPS.

1936—James Cecil Stevenson
Maurice Ivan Stebbins
Una Gailey Bick

DETAILS OF SUBJECTS.

Faculty of Arts—B.A. Degree.

A.—CLASSICS.

Professor Michie, Mr. Castlehow, and Miss Harwood.

I. LATIN. II. GREEK.

LATIN, PART I.; AND GREEK, PART I.

The subjects of Examination will be:—

1. Such Authors or portions of Authors as are prescribed for special study (see below).
2. Prose Composition.
3. Translation from Authors not specially prescribed.
4. Outlines of Roman History and Greek History.
5. Outlines of Latin Literature and Greek Literature.

Special Authors are prescribed, as follows:—

FOR THE EXAMINATION OF 1936.

LATIN, PART I.

Cicero, Select Orations: King (Clarendon Press).
Vergil, Georgics I.: Page (Macmillan).
Horace, Odes III. and IV.: Page (Macmillan).

GREEK, PART I.

Homer, Iliad I.: Bond and Walpole (Macmillan).
Aeschylus, Prometheus Vinctus: Sikes and Willson (Macmillan).
Demosthenes, Philippic I. and Olynthiacs: Sandys (Macmillan).

FOR THE EXAMINATION OF 1937.

LATIN, PART I.

Horace, Odes I. and II.: Page (Macmillan).
Livy, Book XXI.: Trayes (Bell and Sons).
Vergil, Aeneid VI.: Page (Macmillan).

GREEK, PART I.

Homer, Odyssey IX. and X.: Edwards (Cambridge University Press).
Demosthenes, Philippic I. and Olynthiacs: Sandys (Macmillan).
Plato, Protagoras: Adam (Pitt Press Series).

LATIN, PART II.; AND GREEK, PART II.

The subjects of Examination will be:—

1. Authors, or portions of Authors, prescribed for special study.
2. Prose Composition.
3. Translation from Authors not specially prescribed
4. History, as prescribed.
5. Literature, as prescribed.

FOR THE EXAMINATION OF 1936.

(*a*) Special Authors—

LATIN, PART II.

Seneca, Dialogues X., XI., XII.: Duff (Cambridge University Press).

Tacitus, Histories II.: Godley (Macmillan).

Plautus, Selections: Westaway (Cambridge University Press).

GREEK, PART II.

Aeschylus, Agamemnon: Sidgwick (Clarendon Press).

Herodotus VII.: Butler (Macmillan).

Oxford Book of Greek Verse, Selections (Clarendon Press).

(*b*) History—

Roman History, Special Period, Augustus to Trajan; Greek History, General.

(*c*) Literature—

General knowledge.

FOR THE EXAMINATION OF 1937.

(*a*) Special Authors—

LATIN, PART II.

Cicero, Select Letters: How and Clark (Clarendon Press).
Tacitus, Histories I.: Godley (Macmillan).
Horace, Epistles II. and Ars Poetica: Wilkins (Macmillan).

GREEK, PART II.

Aristophanes, Frogs: Merry (Clarendon Press).
Thucydides, Book IV.: Graves (Macmillan).
Euripides, Alcestis: Earle (Macmillan).

(*b*) History—

Roman History, General; Greek History, Special Period 510-404 B.C.

(*c*) Literature—

General knowledge.

HONOUR SCHOOL OF CLASSICS.

COURSE EXTENDING OVER THREE OR FOUR YEARS.

The Examination for Clasical Honours will be held in March in each year.

Before presenting themselves for Examination, candidates must have done the work of *five* full Courses at least in their Honours Group, and generally conformed with the rules for graduation in Arts.

The Subjects of Examination will be:—

1. Prose Composition, Greek and Latin.
2. Translation from Authors not specially prescribed.
3. Authors specially prescribed. (*See note A.*)
4. Literature—
   (*a*) General;
   (*b*) Special studies, as prescribed. (*See note B.*)
5. History—
   (*a*) General;
   (*b*) Special periods, as prescribed. (*See note C.*)
6. Greek Philosophy. (*See note D.*)

Prescribed Work.

HONOURS EXAMINATIONS, 1936-1938.

(*a*) Authors—

For March, 1936.

Cicero, Select Letters.
The Hundred Best Latin Poems.
Tacitus, Histories I.
Horace, Epistles II. and Ars Poetica.
Livy XXII.
Juvenal, Satires.
Demosthenes, De Corona
Thucydides IV.
Aristophanes, Frogs.
Herodotus VII.
Euripides, Alcestis.
Oxford Book of Greek Verse, Selections

For March, 1937.

Juvenal, Satires.
Tacitus, Histories II.
Cicero, Select Letters.
Plautus, Selections.
The Hundred Best Latin Poems.
Seneca, Dialogues X., XI., XII.
Aeschylus, Agamemnon.
Demosthenes, De Corona.
Thucydides IV.
Aristophanes, Frogs.
Herodotus VII.
Oxford Book of Greek Verse, Selections.

For March, 1938.

Seneca, Dialogues X., XI., XII.
Horace, Epistles II. and Ars Poetica.
Plautus, Selections.
Cicero, Select Letters.
Tacitus, Histories I. and II.
Herodotus VII.

Euripides, Alcestis.
Aeschylus, Agamemnon.
Thucydides IV.
Aristophanes, Frogs.
Oxford Book of Greek Verse, Selections.

(*b*) History—

(i.) Greek, General, and Special Period, 510-404 B.C.
(ii.) Roman, General, and Special Period, Augustus to Trajan

(*c*) Literature—

The two special subjects studied in the two years preceding the examination.

(*d*) Ancient Philosophy. (*See note D, infra.*)

NOTES.

A.—Prescribed Books.

The same list of special authors is prescribed for the Honours Courses and for the pass Course, Part II., but Candidates for Honours will offer for their final Examination the special authors of two consecutive Part II. Pass Courses, and will be expected to show a higher standard of knowledge than is required in the Graduation Course.

B.—(*a*) Greek Drama and Aristotle's Poetics.
(*b*) Greek and Roman Epic.

C.—(*a*) Greek History, 510 to 404, B.C.
(*b*) Roman History: Augustus to Trajan.

D.—Greek Philosophy.

Candidates for Classical Honours are required to show a good general knowledge of the history of Greek philosophical thought from Thales to Plotinus. Plato's *Republic* and Aristotle's *Ethics* are prescribed for special study, and a knowledge of the Greek text of these books is expected. Essays are set periodically.

In addition to the Authors prescribed for special study, students should have copies of the following books:—

For Roman History—

History of Rome: How and Leigh (Longmans). Roman History: Pelham (Rivington). Students' Roman Empire: Bury (Murray).

Also texts of Tacitus (Annals and Histories, edited by C. D Fisher, Oxford Classical Texts) and of Suetonius (Teubner).

For Greek History—

History of Greece: Bury (Macmillan); *or*
History of Greece: Holm, 4 vols. (Macmillan).

Also texts of Thucydides and Herodotus (Oxford Classical Texts).

For Greek and Latin Literature—

Greek Literature: Murray (Heinemann).
Latin Literature: Mackail (John Murray).

For Ancient Philosophy—

Plato: Ed. J. Burnet (Oxford Classical Texts: vols. i-iv.).
Outlines of Aristotle's Philosophy: Wallace (Cambridge).
Aristotle: Ethica Nicomachea, ed. Bywater (Oxford).
Jowett's Translation and Introductions to the Republic can now be got in the Oxford Library of Translations (Clarendon Press, 2 vols., 7s.).

For Grammar, &c.—

Latin Grammar: Gildersleeve and Lodge.
Greek Syntax: Thomson.
Prosodia Latina: Postgate (Clarendon Press).

III. GREEK LITERATURE AND ART.

(Sixty Lectures.)

History.

(Twenty Lectures.)

General Outline of the History of Ancient Civilization, with closer attention to the History of Greece.

Books recommended.

History of Ancient Times: Breasted (Ginn and Co.).
History of Greece: Bury.

For Special Reading.

Herodotus I. and II. (Everyman's Library).
Thucydides I. (Everyman's Library).

Literature.

(Ten Lectures.)

Subject: The Drama.

For Special Reading.

Aristotle, On the Art of Poetry: Bywater (Oxford University Press—translation only).

Students will be expected to show a first-hand knowledge of representative plays of the Greek and Roman dramatists.

Philosophy.

(Fifteen Lectures.)

General outline of the History of Greek Philosophical Thought from Thales to Plotinus.

Books recommended.

Critical History of Greek Philosophy: W. T. Stace.

For Special Reading.

Plato, Republic: Translation, Lindsay (Dent).

HISTORY OF ART.

(Ten Lectures.)

General knowledge of the subject. The Lectures will deal chiefly with Architecture and Sculpture.

HISTORY OF SCIENCE.

(Five Lectures.)

Book recommended.

Mathematics and Science in Classical Antiquity: Heiberg

B.—MODERN LANGUAGES AND LITERATURE.

Professor Stable, Dr. Robinson, Mr. Schindler, and Mr. Mahoney, Mr. Tommerup (part time).

IV. ENGLISH.

PART I.

1. Outline History of the Language and Literature.
2. The Elizabethan Period.

Text-books.

The Making of English: Bradley.

Handbooks of English Literature. The Age of Shakespeare.

1936.

For General Study.

The Oxford Book of Australasian Verse.

Sidney: Apologie for Poetrie (Ginn and Co., London).

Everyman with other Interludes (Everyman's Library).

Marlowe: Plays (Everyman's Library).

Shakespeare: Poems.

Shakespeare: Two Gentlemen of Verona.

Life in Shakespeare's England: Dover Wilson (Cambridge).

Set Books.

Spenser: Selections (Oxford).

Shakespeare: Merchant of Venice.

Greene: Friar Bacon and Friar Bungay.

The Poetry of the Age of Shakespeare.

For the English I. course for Commerce students *see* Appendix, page 202.

1937.

For General Study.

Serle: An Anthology of Australasian Verse.
Sidney: Apologie for Poetrie.
Everyman, with other Interludes (Everyman's Library).
Minor Elizabethan Drama—Pre-Shakespearean Tragedy (Everyman's Library).
Shakespeare: Sonnets.
Shakespeare: Love's Labour Lost.
Life in Shakespeare's England: Dover Wilson (Cambridge).

Set Books.

Shakespeare: Romeo and Juliet.
Spenser: Faery Queene, Book I.
Kyd: Spanish Tragedy.
The Poetry of the Age of Shakespeare.

PART II.

1. English Literature from the Elizabethan Period to 1832
2. Fourteenth-Century Literature.

Text-books.

Handbooks of English Literature—
The Age of Chaucer. The Age of Johnson.

1936.

For General Study.

Chaucer: Parliament of Fowles.
Chaucer: The Man of Law's Tale.
Shakespeare: Hamlet.
Shakespeare: The Tempest.
Swift: A Tale of a Tub (Everyman's Library).
Lamb: Essays.
Milton: Paradise Lost.
The Prelude to Poetry (Everyman's Library).

Set Books.

Chaucer: Prologue to Canterbury Tales.
Shakespeare: Othello.
Dryden: Essay of Dramatic Poesy.
Keats: Poems.
English Verse and Prose: Strong and Wallace (Oxford)

1937.

For General Study.

Chaucer: Minor Poems.
Shakespeare: Measure for Measure.
Shakespeare: Winter's Tale.

Jonson: The Alchemist.
Milton: Paradise Regained.
Milton: Samson Agonistes.
English Prose—Milton to Gray (The World's Classics).
The Prelude to Poetry (Everyman's Library).

Set Books.

Chaucer: Prologue and Pardoner's Tale.
Shakespeare: Hamlet.
Swift: A Tale of a Tub.
The English Parnassus (Oxford).

PART III.

(Honours Students only.)

1. The History of Criticism.
2. The Victorian Age.

Text-books.

Handbooks of English Literature: The Age of Tennyson.

Set Authors.

1936.

Carlyle: Sartor Resartus.
English Critical Essays (Nineteenth Century) (Oxford).
Pater: Appreciations.
Tennyson: In Memoriam.
Browning: Paracelsus.
Arnold: Poems.
English Verse and Prose: Strong and Wallace (Oxford).

1937.

Carlyle: Past and Present.
Ruskin: The Seven Lamps of Architecture.
Borrow: Lavengro.
Tennyson: Poems.
Browning: Poems.
Matthew Arnold: Poems.
Morris: Jason.
The English Parnassus (Cambridge).

V. FRENCH.

Books prescribed for all Students.

Petit Larousse Illustré (Larousse).
Tutorial French Grammar (Weekley and Wyatt, University Tutorial Press).
Margaret R. B. Shaw: Parallel Passages of French and English Prose (Bell and Sons, London).
Marcel Braunschvig—
(i.) Notre littérature étudiée dans les textes (2 vols., A. Colin, Paris).

(ii.) La littérature française contemporaine étudiée dans les textes (1 vol., A. Colin, Paris).

Petite Histoire de la France et de la Civilisation française: Bernard et Redon (Cours élémentaire and Cours moyen, 2 vols., Fernand Nathan, Paris).

PART I.

1. Composition, Translation, and Phonetics.
2. Outline History of French Language, Literature, and Culture.
3. Classical Masterpieces.

Prescribed books.

1936.

Corneille: Le Menteur (Classiques Larousse, Paris).

Racine: Bajazet (Classiques Larousse, Paris).

Molière: Les Femmes Savantes (Classiques Larousse, Paris).

La Fontaine: Fables (Hachette, Paris).

1937.

Corneille: Le Cid (Classiques Larousse).

Racine: Bérénice (Classiques Larousse).

Moliere: Le Misanthrope (Classiques Larousse).

La Fontaine: Fables, Edition révisée (Aubertin) (Eugene Bélin).

PART II.

(i.) Composition and translation.

(ii.) Private correspondence in 17th and 18th centuries.

(iii.) French lyrical poetry.

(iv.) The Renascence.

Prescribed books.

1936.

Le Seizième Siècle en France, étude suivie de morceaux choisis: Darmesteter and Hatzfeld (Delagrave, Paris).

Lettres choisies des XVII^e^ et XVIII^e^ Siècles: Lanson (Hachette, Paris).

Extraits des Philosophes du XVIII^e^ Siècle: Lanson and Naves (Hachette, Paris).

The Oxford Book of French Verse (Oxford University Press).

1937.

As for 1936.

PART III.

(Honour Students only.)

1. Composition and Translation.
2. History of Criticism.
3. The Nineteenth Century.

Prescribed books.

1936.

Histoire contemporaine depuis le milieu du XIX^e siècle et Institutions actuelles de la France: Roubaud (Armand Colin, Paris).

Anthologie des écrivains du XIX^e siècle: Gauthier-Ferrières (4 vol., Larousse).

Anthologie des écrivains contemporains: Gauthier-Ferrières (2 vol., Larousse).

1937.

As for 1936.

VI. GERMAN.

PART 1.

1. Composition, Translation, and Phonetics.
2. Outline History of German Literature and Language.
3. The XVIIIth Century.

Text-book.

Geschichte der deutschen National-Literatur: Kluge.

Prescribed books.

1936.

Lessing: Nathan der Weise.

Schiller: Wilhelm Tell.

Goethe: Faust (Erster Teil).

Goethe: Italienische Reise.

The Oxford Book of German Verse.

*Sudermann: Frau Sorge.

1937.

Lessing: Emilia Galotti.

Schiller: Don Karlos.

Goethe: Iphigenie auf Tauris.

Goethe: Gedichte.

The Oxford Book of German Verse.

*Kleist: Michael Kohlhaas.

*To be prepared for Oral Examination.

PART II.

1. Composition and Translation.
2. German Poetry from Opitz to Lessing.
3. The Rise of the Romantic School.

Text-book.

Geschichte der deutschen National-Literatur: Kluge.

1936.

Opitz: Das Buch von der deutschen Poeterei.
Klopstock: Der Messias (Erster Teil).
Lessing: Der Laokoon.
Tieck: Der Gestiefelte Kater.
Novalis: Heinrich von Ofterdingen.
The Oxford Book of German Verse.
*Alexis: Die Hosen des Herrn von Bredow.

1937.

Opitz: Das Buch von der deutschen Poeterei.
Hölderlin: Hyperion.
Lessing: Hamburgische Dramaturgie.
F. Schlegel: Fragmente.
Kleist: Friedrich von Homburg.
The Oxford Book of German Verse.
François: Die letzte Reckenburgerin.

PART III.

(Honour Students only.)

Temporarily suspended.

HONOUR SCHOOL OF ENGLISH LANGUAGE AND LITERATURE.

The Examination will consist of two sections, and will include the following subjects:—

SECTION I.

1. History of the Language and Phonetics.
2. Anglo-Saxon Literature.
3. Middle-English Literature.
4. The History of Modern Criticism.
5. Textual Criticism and Bibliography.
6. Essay on Literary Criticism or on Language.

* To be prepared for Oral Examination.

SECTION II.

1. General English Literary History to 1832.
2. Chaucer and the Early Renaissance.
3. Shakespeare.
4. The Victorian Age and Contemporary Literature.
5. Special Author or Authors.
6. Essay on some Literary Subject.

For Special Study.

Anglo-Saxon Reader: A. J. Wyatt.
Middle-English Reader: Emerson.
Old English Grammar: A. J. Wyatt.
English Phonetics: W. Ripman.

Special Authors—

1936—Milton.
1937—The Drama since 1850.
1938—Shelley and Keats.
1939—Browning.

HONOUR SCHOOL OF MODERN LANGUAGES AND LITERATURE.

A.—ENGLISH.

Candidates selecting English as one of their subjects will take Section II. of the English Honours course with, in addition, a modified course in the History of the Language and Phonetics (Section I.).

For Special Study.

Anglo-Saxon Reader: A. J. Wyatt.
First Middle-English Primer: Sweet.
Old English Grammar: A. J. Wyatt.
English Phonetics: W. Ripman.

B.—FRENCH.

Candidates selecting French will be examined in—

1. Alternative subjects for an Essay (in French) on French Literature or Literary Criticism.
2. Passages from unspecified French authors not earlier than 1500 for translation and explanation.
3. Passages from English authors to be translated into French.
4. A special author or subject of French Literature after 1500.
5. The Nineteenth Century and Contemporary Literature.

5. (*a*) Passages from specified French writings earlier than 1500 for translation and explanation, with questions on Language, Metre, and Literary History.

(*b*) The elements of Historical French Grammar.

Text-book.

Manuel d'Ancien Francais (début du XXIIe. siècle): Dorothea Paton (Thomas Nelson and Sons).

Set book.

Chrestomathie de l'Ancien Français: L. Constans (Ed. Champion).

Special Authors—

1936—Alfred de Vigny.

1937—Jean-Jacques Rousseau.

1938—La Rochefoucauld and Saint-Evremond.

1939—Honoré Balzac.

C.—SOCIAL STUDIES.

Professor Alcock, Dr. Melbourne, Mr. Gifford, and Dr. Fry. Mr. Molesworth (Part Time).

VII. HISTORY.

PART I.

For 1936 and alternate years—

English History, Mediæval and Early Modern (to c. 1800).

Tutorials.

See information as to First-year Honours work.

Books prescribed.

Philips' Historical Atlas, Mediæval and Modern.

History of England: Trevelyan.

Constitutional History of England: Adams.

Social and Industrial History of England: Tickner.

For 1937 and alternate years—

General History, Mediæval and Early Modern.

Tutorials.

See information as to First-year Honours work.

Books prescribed.

A Political and Cultural History of Modern Europe, Vol. I. Hayes (Macmillan).

Philips' Historical Atlas, Mediæval and Modern.

The Empire and the Papacy: Tout (Rivington's).

The Ascendancy of France: Wakeman (Rivington's).
Medieval and Modern Times: Robinson (Ginn).

(Students are advised to consult the Cambridge Mediæval History and the Cambridge Modern History for the more significant developments.)

(For reference or further reading.)

Longman's Political History of England.
Methuen's History of England.
The Cambridge Mediæval History.
The Cambridge Modern History.
The Economic History of England: Lipson.

PART II.

For 1936 and alternate years—
Modern International Relations.

Books prescribed.

Revolutionary Europe: Morse Stephens.
The Last Century in Europe: Hawkesworth.
Cambridge Modern History, Vol. XII. (The Latest Age).
Philips' Historical Atlas, Mediæval and Modern.

For 1937 and alternate years—
Imperial History.

Books prescribed.

A Short History of British Expansion: Williamson.
Government of the British Empire: Jenks.
William Charles Wentworth: Melbourne.

(For reference or further reading.)

Cambridge History of the British Empire.
Documents of the Canadian Constitution: Kennedy.
Select Constitutional Documents Illustrating South African History: Eybers.
Responsible Government in the Dominions: Keith
Imperial Unity and the Dominions: Keith.

VIII. CONSTITUTIONAL HISTORY AND POLITICAL SCIENCE.

Law Students should refer to Course XVIII. (p. 118).

PART I.

1. **(*a*) British Constitutional History.**
   (*b*) General Principles of Constitutional Development, as illustrated by (*a*).
   (*c*) Groundwork of Constitutional Law, as illustrated by (*a*).

2. (*a*) General History of Political Thought up to about 1701.
   (*b*) The General Theory of the State.
   (*c*) The Relation of (*a*) and (*b*) to Selected Political and Constitutional Developments of Outstanding Importance.

Books prescribed.
(For Special Study.)

Hobbes: Sir Leslie Stephen.
The Leviathan: Thomas Hobbes (Clarendon Press or other edition), chs. xiii. to xxxi.

Books prescribed (General).

The History of Political Science from Plato to the present: R. H. Murray.
English Constitutional History: Taswell-Langmead.
Source Book of Constitutional History from 1660: Dykes.

(*For reference or further reading.*)

Select Charters illustrative of English History: Stubbs.
Tudor Constitutional Documents, 1485-1603: *Tanner.*
Constitutional Documents of the Reign of James I.: Tanner.
Constitutional Documents of the Puritan Revolution: Gardiner.
The Law and Custom of the Constitution: Anson.

PART II.

1. (*a*) Constitutional Development in the British Colonies.
   (*b*) Foreign Constitutional History.
   (*c*) Groundwork of Constitutional Law, as illustrated by (*a*) and (*b*).

2. (*a*) General History of Political Thought from about 1701.
   (*b*) Detailed Examination of some Modern Political Philosophies.
   (*c*) Constructive Application of Principles derived from (*a*) and (*b*).

Books prescribed.
(For Special Study.)

Bentham's Fragment on Government: Ed. F. C. Montague.
Utilitarianism: J. S. Mill.

Books prescribed (General).

*The Governments of Europe: F. A. Ogg; or
European Governments and Politics: F. A. Ogg.
Selected Speeches and Documents on British Colonial Policy: A. B. Keith.
The Law of the Constitution: A. V. Dicey.

*Not after 1936.

The History of Political Science from Plato to the present: R. H. Murray.

Note.—Commerce students taking Part II. only should also possess one of the Constitutional Histories prescribed for Part I.

(*For reference or further reading.*)

The Law and Custom of the Constitution: Sir W. Anson.
Responsible Government in the Dominions: A. B. Keith.
Imperial Unity and the Dominions: A. B. Keith.
Documents of the Canadian Constitution: W. P. M. Kennedy.
Select Constitutional Documents illustrating South African History: G. W. Eybers.
The Commonwealth of Australia: W. Harrison Moore.
The Elements of Politics: A. Sidgwick.

IX. ECONOMIC HISTORY.

Prescribed books.

Social and Industrial History of England: Tickner.
Economic Development of Modern Europe: Ogg.
Ancient History in its Economic aspects: Cunningham.
Economic History of England: Meredith.
Economic History of Australia: Shann.

(*For reference or further reading.*)

The Economic History of England: Lipson.
An Historical Atlas.
English Economic History Select Documents: Bland, Brown and Towncy.
History of Commerce: Day.
The Rise of Modern Industry: J. L. and B. Hammond.
The Economic History of the United States: Bogart.

X. ECONOMICS.

Part I.

A general survey of Economic Theory.

Books prescribed.

History of Political Economy: Ingram; *or*
Development of Economic Doctrine: Gray.
Principles of Economics: Taylor.
Money: Mills and Walker.
International Trade: Barrett Whale.

(*For reference or further reading.*)

Australian Banking and Currency: Teare.

PART II.

(Evening only.)

Books prescribed.

Principles of Economics: Marshall.
Industry and Trade: Marshall.
Taxation in Australia. Stephen Mills.
Public Finance: Dalton.
The Devaluation of the Pound: Gifford.
International Trade: Barrett Whale.
The Australian Tariff: Brigden, Copland, and others.

PART III.

(Evening only.)

Books prescribed.

Statistical Methods: Mills.
Art of Central Banking: Hawtrey.
Money: Mills and Walker.

SHORT COURSE.

(For fourth-year students of Engineering or Chemical Engineering or Applied Chemistry.)

Six Lectures, to include—

(*a*) Instruction in Terms and Elementary General Principles of Economies and Business Management;

(*b*) Direction of Reading; and

(*c*) Discussion of a few selected Topics.

HONOUR SCHOOL OF HISTORY.

Candidates must study both divisions of the subjects as set forth above. They must attend lectures on the special study of the year subsequent to taking British History II. Additional reading will be prescribed by the lecturer in tutorial classes.

SCHEME SUMMARISING THE REQUIREMENTS FOR AN HONOURS COURSE IN HISTORY AS TAKEN IN THREE YEARS.

First Year—

1. History I.
2. A part of a language other than English.
3. English I.

Constitutional History and Political Science I. may form a fourth subject in the First Year instead of being taken in the Second Year.

Students are also advised to attend weekly tutorials and perform the regular written work associated therewith. *These tutorials are open to pass students* as well as candidates for honours, and will be found valuable for many purposes. They will refer to the subject-matter of that aspect of History I. not in class use for the year.

Second Year—

1. History II.
2. Economics I. (with Economic Geography).
3. Ethics and Metaphysics.
4. Constitutional History and Political Science I. (if not taken in first year).
5. Economic History.

Students are also required to attend weekly tutorials and perform the written work associated therewith.

Third Year—

1. Constitutional History and Political Science II.
2. Greek Literature, Philosophy, and Art.
3. History II., the alternate version (not previously taken).
4. History, special subject for intensive study.*

* *Note.*—A dissertation is required on a topic associated with or forming a part of the special subject.

Candidates are also required to attend the lectures in Economics II.

Special subject for 1936—

Absolute Government.

Special subject for 1937—

The Origin and Development of Responsible Government in the British Empire.

HONOUR SCHOOL OF ECONOMICS.

A. Scheme of studies extended over four years.

Except as provided hereunder, candidates for the Degree of Bachelor of Arts with Honours in Economics must attend lectures, inspections, and tutorial classes, pass examinations, and write theses distributed as follows:—

In the First Year—

Economic History.

Economic Geography (half course, part of Agricultural Economics; *see* Course LXI.)

In the First and Second Years—

Attend lectures and pass examinations in—

(i.) English I.;
(ii.) French I. or German I. (but see note hereunder at end of Scheme B);
(iii.) Pure Mathematics I.;
(iv.) Philosophy I. (Examination optional);
(v.) Constitutional History and Political Science I.

In the Second Year—

(*a*) Economics I. (as for Commerce Students, *i.e.*, with Economic Geography added to the Theory).
(*b*) History II. (Modern International Relations, if available; otherwise to be taken in Third Year).
(*c*) Write essays and attend tutorial classes in Economic Theory and History as directed by the Professor of History and Economics.

In the Third Year—

(*a*) Attend lectures and pass examinations in—

(i.) Constitutional History and Political Science II. (Modern Political Institutions and Theories);

(ii.) Economics II.;

(iii.) An approved Law subject; and/or

(iv.) Statistical and Actuarial Mathematics.

Statistical and Actuarial Mathematics may not be taken unless a pass has been secured in Pure Mathematics I. of sufficient merit, in the opinion of the Professor of Mathematics, to indicate ability to obtain full benefit from the course.

(*b*) Attend lectures in Ethics (without Metaphysics);

(*c*) Attend tutorial classes as directed.

In the Fourth Year—

(*a*) Attend lectures in—

(i.) Political Philosophy (an Honours Course in the Department of Mental and Moral Philosophy);

(ii.) Economics III.;

(*b*) Prepare and present (before the first day of the first examination period of the fifth year) a satisfactory thesis treating of a subject approved by the Professor of History and Economics and concerning an economic topic studied under supervision during the Fourth Year or a problem of Political Science connected with that topic.

The Final Honours examination shall, at the discretion of the Faculty, be held in the first examination period of the Fifth Year or be divided between that period and the second examination period of the Fourth Year. It shall include papers on all aspects of Economics and on Political Science, Constitutional History, Modern General History, Political and General Philosophy; but candidates who have passed the annual examinations in Logic and Psychology I. and Ethics and Metaphysics may be excused from further examination in General Philosophy.

B. Scheme of studies extended over three years.

Candidates who have passed the Senior Public Examination of the University of Queensland or an examination accepted by the Senate as equivalent thereto in the subjects of Economics, Modern History, Mathematics A., and French or German, may pursue the course set out hereunder, and elect to sit for the final examination for Honours in Economics either as provided above, or one year earlier.

In the First Year—

(*a*)—

(i.) French I. or German I.;

(ii.) Economic History;

(iii.) Economics I.;

(iv.) Economic Geography (half course, part of Agricultural Economics; *see* Course LXI.);

(v.) Pure Mathematics I.

(*b*) Essays and tutorial classes as prescribed above, for the second year.

In the Second Year—

(*a*)—

(i.) English I.;

(ii.) Constitutional History and Political Science I.;

(iii.) An approved Law subject *or* Statistical and Actuarial Mathematics;

(iv.) Economics II.

(*b*) Attend lectures in Philosophy I. and tutorial classes as prescribed above, for the third year.

In the Third Year—

(*a*)—

(i.) Constitutional History and Political Science II.;

(ii.) Economics III.;

(iii.) Political Philosophy;

(iv.) Ethics.

(*b*) Thesis as prescribed above, for the fourth year.

Holders of the Diploma in Commerce of the University of Queensland or graduates with Honours in History may be admitted as Third Year Students to the four-year course of the Honour School of Economics and have the work of the remaining years suitably apportioned. Graduates with Honours in History who have passed the annual examination in French I. or German I.,* Philosophy I., Pure Mathematics I., and Economics II. (or reached a sufficiently high standard in the economic portion of their final examination) may be admitted to the Fourth Year in the Honour School of Economics.

* *Note.*—A pass in Latin I. or Greek I. will be accepted in place of French I. or German I., provided the candidate can satisfy the Lecturer in French or German (as the case may require) of his ability to understand books on economic subjects written in French or German or some other modern foreign language.

Candidates admitted to this three-year course may be exempted from the pass examination in Modern International Relations, but must complete the lecture course in that subject in either their second or their third year.

D.—MENTAL AND MORAL PHILOSOPHY, AND EDUCATION.

Professor Scott Fletcher and Mr. Kyle.

XI. PHILOSOPHY.

PART I.

Philosophy I. includes Logic, Psychology, and elementary ethical and philosophical theory.

LOGIC.

Chief attention will be given to Deductive Logic, but the general nature and the methods of Induction will also be discussed.

Prescribed text-book.

Logic, Inductive and Deductive: Minto (Murray).

Students might also consult with advantage the text-books on Logic by Creighton and Mellone.

PSYCHOLOGY.

A description and analysis of the main states of consciousness and modes of behaviour.

Prescribed Text-books.

Psychology, A Study of Mental Life: Woodworth (Methuen).
An Introduction to Social Psychology: McDougall (Methuen).

ETHICS AND PHILOSOPHY.

An introduction to the more important ethical and metaphysical conceptions.

Prescribed text-books.

An Introduction to Ethics: Johnston (Macmillan).
History of Philosophy: Webb (Home University Library).

Books for reference and additional reading.

Essentials of Logic: Bosanquet (Macmillan).
Intermediate Logic: Welton and Monahan, third edition revised (Univ. Tut. Press).
Introduction to Science: Thomson (Home University Library).
An Introduction to Experimental Psychology: Myers (Cambridge Manuals).
Text-book of Psychology: James (Macmillan).
Psychology from the Standpoint of a Behaviorist: Watson (Lippincott).

PART II.

Philosophy II. (Logic and Psychology) and Philosophy IIA. (Ethics and Metaphysics) are alternative second parts of Philosophy I. for the purposes of Rule 5 under the Statute relating to the Degree of Bachelor of Arts.

Evening Courses are provided in Philosophy II. and Philosophy II.A, in alternate years, for Evening Students.

PHILOSOPHY II.—LOGIC AND PSYCHOLOGY.

Logic is taken conjointly with Psychology as a single course.

Logic.

A detailed study will be made of the Methods of Induction and of the Principles of Science. Some lectures will be devoted to the discussion of the problems of Logic as treated by Kant, Bosanquet, and Bradley.

Prescribed text-books.

System of Logic: Mill (Longmans). Book III. to be studied.

Intermediate Logic: Welton and Monahan, third edition, revised (Univ. Tut. Press).

Science and the Modern World: Whitehead (Cambridge).

For reference and additional reading.

Empirical Logic: Venn (Macmillan).

A Short History of Logic: Adamson, ed. Sorley (Blackwood).

Philosophy by Way of the Sciences: Dotterer (The Macmillan Co.).

Psychology.

The Course will include:—

(*a*) General Theory of Experience.

(*b*) Abnormal and Social Psychology.

(*c*) Experimental Psychology.

Prescribed text-books.

Psychological Principles: Ward (Cambridge).

An Introduction to Social Psychology: McDougall (Methuen).

The Psychology of Society: Ginsberg (Methuen).

The Psychology of Insanity: Hart (Cambridge Manuals).

Dreams: Tasman Lovell (Monograph Series, No. II., A.A.P.P., Sydney).

Educational Psychology: Sandiford (Longmans).

For reference and additional reading.

Human Experience: Haldane (Murray).

Principles of Psychology: James, two vols. (Macmillan).

The New Psychology: Tansley (Allan and Unwin).

A Text-book of Experimental Psychology: Myers and Bartlett, two vols., third edition (Cambridge).

Reference will be made to the texts of Locke, Hume, Kant, and Green.

Students will attend laboratory demonstrations and perform such experiments as may be prescribed from time to time.

PHILOSOPHY IIA.—ETHICS AND METAPHYSICS.

Ethics is taken conjointly with Metaphysics as a single course.

Ethics.

The lectures will deal in alternate years with (*a*) the principles of Ethics and Social Philosophy, (*b*) the general history of ethical thought.

Prescribed text-books.

1936.

Ethics and Social Philosophy:—

Ethical Principles: Seth (Blackwood).

Socrates: Taylor (Peter Davies).

Aristotle: Ethica Nicomachea; trans. by W. D. Ross (Oxford).

Prolegomena to Ethics: Green (Oxford).

The Philosophical Theory of the State: Bosanquet (Macmillan).

For reference and additional reading.

The Psychology of Society: Ginsberg (Methuen).

A Manual of Ethics: Mackenzie, sixth edition, revised (Univ. Tut. Press).

A History of English Philosophy: Sorley (Cambridge).

Selections from Kant: Watson (Maclehose).

1937.

The History of Ethical Thought:—

Ethical Theory: Barbour (The Hassell Press, Adelaide).

Aristotle: Ethica Nicomachea; trans. by W. D. Ross (Oxford).

Three Sermons on Human Nature, etc.: Butler, ed W. R. Matthews (Bell's English Classics).

Utilitarianism: Mill (Everyman's Library).

Selections from Kant: Watson (Maclehose).

A History of English Philosophy: Sorley (Cambridge).

For reference and additional reading.

Prolegomena to Ethics: Green (Oxford).

British Moralists: Selby-Bigge, two vols. (Oxford).

A Short History of Ethics: R. A. P. Rogers (Macmillan).

Honours students in the School of Philosophy will take both of the above courses in successive years.

Metaphysics.

The lectures will deal in alternate years with (*a*) the history of the development of philosophical doctrine, (*b*) the main problems discussed in metaphysical inquiry.

Prescribed text-books.

1936.

History of Philosophy—

Student's History of Philosophy: A. K. Rogers (The Macmillan Co.).

Discourse on Method, etc.: Descartes (Everyman's Library).

An Essay concerning Human Understanding: Locke (Routledge).

Selections from Kant: Watson (Maclehose).

Prolegomena to Ethics: Green (Oxford).

For reference and additional reading.

The Philosophical Writings of Leibniz: (*Everyman*).

The Spirit of Modern Philosophy: Royce (*Houghton, Mifflin Co.*).

Principles and Problems of Philosophy: Sellars (*The Macmillan Co.*).

A History of English Philosophy: Sorley (*Cambridge*).

1937.

Metaphysical Problems:—

Outlines of Metaphysics: Mackenzie (Macmillan).

Problems of Philosophy: B. Russell (Home University Library).

Discourse on Method, etc.: Descartes (Everyman's Library).

An Essay concerning Human Understanding: Locke (Routledge).

Selections from Kant: Watson (Maclehose).

For reference and additional reading.

Principles of Human Knowledge, etc.: Berkeley (*Everyman*).

Treatise of Human Nature: Hume (*Everyman*).

Elements of Metaphysics: Taylor (*Methuen*).

The New Realism, by Holt and others (*The Macmillan Co.*).

Student's History of Philosophy: A. K. Rogers (*The Macmillan Co.*).

Honours students in the School of Philosophy will take both of the above courses in successive years.

XII. EDUCATION.

No student may take the course in Education unless a pass has been secured in Philosophy, Part 1.

Prescribed text-books.

Theory of Education—

The Educative Process: Bagley (The Macmillan Co.).

Modern Education: Raymont (Longmans).

Modern Developments in Educational Practice: Adams (Univ. of London Press).

The School: Findlay (Home University Library).

Psychology Applied to Education: Ward (Cambridge).

History of Education—

A Brief Course in the History of Education: Monroe (The Macmillan Co.).
Educational Reformers: Quick (Longmans).
Tractate on Education: Milton, ed O. Browning (Cambridge).
Some Thoughts concerning Education: Locke, ed. Quick (Cambridge).
Education: Herbert Spencer (R.P.A. Reprints).

For reference and additional reading.

Mental Tests and Group Tests of Intelligence: Ballard (*Hodder and Stoughton*); or
The Measurement of Intelligence: Terman (*Harrap*).
The Making of Character: MacCunn (*Cambridge*).
Education, its Data and First Principles: Nunn (*Arnold*).
History of Elementary Education in England and Wales: Birchenough (*Univ. Tut. Press, London*).

HONOUR SCHOOL OF MENTAL AND MORAL PHILOSOPHY.

I. Candidates for the Degree of Bachelor of Arts with Honours in Mental and Moral Philosophy shall attend lectures and pass the examinations for the ordinary degree in Philosophy, Part I., Part II. (Logic and Psychology), and Part IIA. (Ethics and Metaphysics—both courses), Economics, Part I. (or Constitutional History and Political Science, Part I.), Greek Literature and Art, English, Part I. and one language other than English, Part I., or (omitting English), Parts I. and II., before they sit for their Final Honours Examination.

II. The Final Honours Examination consists of papers in the History of Philosophy, Psychology, Ethics and Social Philosophy, Logic and Epistemology, and Critical Metaphysics.

III. In September of the year prior to their Final Honours Examination candidates shall present a dissertation upon some subject connected with their studies, the title of which shall have been submitted to the Professor of Philosophy (not later than the end of March) and approved by the Faculty of Arts. The dissertation will be taken into account in determining a candidate's classification in Final Honours.

IV. Students of the third year shall attend such lectures and demonstrations as are from time to time prescribed by the Professor.

V. The following works are prescribed for special study:—

(*a*) Psychology:—

Principles of Psychology: James, two vols. (Macmillan).
Structure and Growth of the Mind: Mitchell (Macmillan).
An Outline of Abnormal Psychology: McDougall (Methuen).
Psychological Principles: Ward (Cambridge).

Reference will also be made to the principles of Social Psychology and to the psychological problems of industry.

(*b*) Ethics and Social Philosophy:—

Prolegomena to Ethics: Green (Oxford).
Ethical Studies: Bradley (Oxford).
Principles of Political Obligation: Green (Longmans).
The Philosophical Theory of the State: Bosanquet (Macmillan).

(*c*) Metaphysics and the History of Philosophy:—

Elements of Metaphysics: Taylor (Methuen).
Naturalism and Agnosticism: Ward (Black).
The Critical Philosophy of Kant: Caird, two vols (Macmillan).
Appearance and Reality: Bradley (Allan and Unwin).
English and American Philsophy since 1800: Rogers (The Macmillan Co.).
A History of English Philosophy: Sorley (Cambridge).
Creative Evolution: Bergson (Macmillan).

(*d*) Logic and Epistemology:—

Essays in Truth and Reality: Bradley (Oxford).
Logic: Bosanquet, two vols. (Oxford).
The Nature of Truth: Joachim (Oxford).
The Principles of Logic: Bradley, two vols. (Oxford).
Idealistic Logic: Morris (Oxford).
A History of Science: Dampier-Whetham (Cambridge).

(*e*) Texts:—

British Moralists: Selby-Bigge, two vols. (Oxford).
The Theory of Vision and other Writings: Berkeley (Everyman).
Treatise of Human Nature: Hume, two vols. (Everyman's Library).
Monadology, etc.: Leibniz, trans. by Latta (Oxford).
Social Contract: Rousseau (Everyman's Library).
Critique of Pure Reason: Kant, trans. by Kemp Smith (Macmillan).
Critique of Practical Reason, etc.: Kant, trans. by Abbott (Longmans).
Critique of Judgment: Kant, two vols., trans. by Meredith (Oxford).
Logic: Hegel, trans. by Wallace (Oxford).
Selections from William James (Everyman).
Testament of Beauty: Robert Bridges (Oxford).

(*f*) Students will also be expected to show some acquaintance with current philosophical journals.

(*g*) Those interested on the literary side should make a study of the following writers:—Coleridge, Carlyle, Wordsworth, Tennyson, Browning, Emerson.

E.—MATHEMATICS, PURE AND APPLIED.

Professor Simonds, Miss Raybould, Mr. McCarthy.

XIII. PURE MATHEMATICS.

PART I.

Details of work.

A.

A Course of about sixty Lectures as in *B*.

A Supplementary Course of about thirty Lectures will also be given. This course should be attended by all candidates for Honours in Mathematics.

Books recommended.

Higher Algebra: Milne.
Plane Trigonometry: Carslaw.
Modern Plane Geometry: Richardson and Ramsay.
Solid Geometry: Jackson.
Geometrical Conics: Caunt and Jessop.
Analytical Geometry: Somerville.
Introduction to Calculus: Carslaw.

B.

A Course of about sixty Lectures on—

Plane Trigonometry.
Algebra.
Elementary Analytical Geometry.
Elementary Solid Geometry.
Elementary Infinitesimal Calculus.

Books recommended.

Plane Trigonometry: Carslaw.
Co-ordinate Geometry: Coleman.
Solid Geometry: Jackson.
Introduction to Calculus: Carslaw.

PART II.

A Course of about sixty Lectures on—

Differential and Integral Calculus.
Elementary Differential Equations.
Certain Properties of Plane Curves.
Complex Numbers and Elementary Theory of Equations.

Book recommended.

Infinitesimal Calculus: Lamb.

XIV. APPLIED MATHEMATICS.

PART I.

A Course of about sixty Lectures on—

Elementary Dynamics, Statics, and Hydrostatics.

Book recommended.

Elementary Dynamics of Particle and Rigid Body: Barnard.

PART II.

A Course of about sixty Lectures on—

Dynamics of a Particle.
Statics and Dynamics of a Rigid Body.
Hydrostatics.

Books recommended.

Statics: Lamb.
Dynamics: Lamb.

XV. STATISTICAL AND ACTUARIAL MATHEMATICS.

A Course of about sixty Lectures on—

(1) Classification of Statistical Data and analysis thereof by use of Mean, Standard Deviation, etc.
(2) Method of Finite Differences, with special application to Interpolation Formulae, etc.
(3) The Euler-Maclaurin Theorem; Stirling's expression for n! formulae for approximate integration.
(4) The Theory of Probability, with special reference to probable errors of statistical constants and theory of sampling.
Analysis of Time-Series by methods of Lexis and Charlier.
(5) Curve-fitting.
(6) Correlation.

Note.—This Course does not treat of professional practice.

HONOUR SCHOOL OF MATHEMATICS.

Tutorial Classes will be held three times a week for second-year students proceeding to a degree with Honours in Mathematics.

These classes will read—

Elementary Analytical Geometry of Three Dimensions.
Differential Equations.
Differential and Integral Calculus.
Projective Geometry.
Dynamics of a Particle.

Third Year.

Classes will be held daily for third-year students in the school of Mathematics.

These classes will read—

Higher Analytical Geometry.
Mathematical Analysis.
Theory of Attractions.
Rigid Dynamics.
Hydrodynamics.

During the first and second term of each year a Course of about twenty Lectures on Spherical Trigonometry and Astronomy will be given.

Students in Spherical Trigonometry and Astronomy should provide themselves with—

Astronomy for Surveyors: Chapman.
Nautical Almanac for current year, and
Spherical Trigonometry (McClelland and Preston, or Todhunter and Leatham).

F.—LAW.

Professor Cumbrae-Stewart, K.C.

XVI. ROMAN LAW.

The Course in Roman Law will consist of about sixty Lectures, covering the History of Roman private law and legal procedure, the text of the Institutes of Justinian, and an outline of the later development and influence of Roman Law.

Book recommended.

Imperatoris Justiniani Institutiones: Moyle, two vols., 5th Edition. (Clarendon Press.)

XVII. PUBLIC INTERNATIONAL LAW.

A Course of about sixty Lectures, illustrating the development and growth of International Law in Europe and the elements of Modern Public International Law covering the changes since the last European War.

Books recommended.

Leading cases on International Law: Pitt-Cobbett, 4th Edition.
Treatise on International Law: W. E. Hall, 8th Edition.
Publications of the League of Nations—Selections.

XVIII. CONSTITUTIONAL LAW.

This will consist of three Sections—A, B, and C—the first two being Constitutional History and Political Science, Parts I. and II. respectively (Course No. VIII.), and the third, Section C, being a Course of about thirty Lectures covering a discussion of the leading cases on Constitutional Law in England, Queensland, and Australia, and on the Statutes and Documents relating thereto, about half of which will be devoted to matters of Federal concern.

As students taking Constitutional Law, Section C, are required to have passed in Constitutional History and Political Science I., and in Constitutional History and Political Science II., they are presumed to have read—

The Law and Custom of the Constitution—Sir W. Anson;
Introduction to the Law of the Constitution—A. V. Dicey; and
The Commonwealth of Australia—Sir W. Harrison Moore;

and to be familiar with the History and Outlines of the British Constitution, the Constitutions of the Commonwealth of Australia and of Queensland, and the leading Statutes relating thereto.

They are recommended, in addition to the books for reference or further reading set out in the Calendar for Course VIII., to refer to—

Annotated Constitution: Quick and Garran.
Legislative Powers of the Commonwealth: Quick.
The Law of the Australian Constitution: Kerr.
Queensland Politics during Sixty Years: Bernays.
Queensland—Our Seventh Political Decade: Bernays.
What Every Australian Ought to Know: Mitchell.

They may with advantage refer to *Halsbury, "Laws of England," articles "Constitutional Law"* and *"Dependencies, Colonies, and British Possessions."*

The leading cases on Constitutional Law in England, Queensland, and Australia to be discussed in the course of the Lectures will include those dealt with in Thomas and Bellott's "Leading Cases in Constitutional Law" and selected Commonwealth and Queensland cases.

XIX. JURISPRUDENCE.

A Course of about sixty Lectures on the Science of Law, including the Origin and Nature of Law, the Nature and Classification of Legal Duties and Rights, the History of Law and of Legal Science, the Leading Concepts of Law, and the Interpretation of Written Documents.

Books recommended.

First Book of Jurisprudence: Pollock.
Elements of Jurisprudence: Holland, 13th Edition.
Jurisprudence: Salmond, 7th Edition.
Short History of English Law: Jenks.
Cardinal Rules of Legal Interpretation: Beal.

XX. MUSIC.

HARMONY.

All details of usual notation. All harmonic combinations usual in part-writing of not more than four parts.

The addition of not more than three parts to either a figured or an unfigured bass. The harmonization of melodies by the addition of not more than three other parts.

Book prescribed.

Melody and Harmony: Stewart Macpherson (J. Williams).

Text-books recommended.

Evolution of Harmony: Kitson (Oxford University Press).

Unfigured Harmony: Percy Buck (Oxford University Press).

Figured Harmony at the Keyboard: R. O. Morris (Oxford University Press).

COUNTERPOINT.

Simple Counterpoint (in vocal style). Three-part counterpoint in all species with not more than one moving part. Four-part counterpoint in first species only.

Books prescribed.

Counterpoint for Beginners: Kitson (Oxford University Press).

The Art of Counterpoint: Kitson (Oxford University Press).

Text-book recommended.

The Foundation of Practical Harmony and Counterpoint: R. O. Morris (Oxford University Press).

HISTORY OF MUSIC.

A general knowledge of the character of the various forms of music composed between the years 1600 and 1850.

Book prescribed.

The Growth of Music: Colles (Oxford University Press).

Text-books recommended.

Summary of Musical History: Parry (Novello).

The Evolution of the Art of Music: Parry (Kegan Paul).

History of Music: Pratt (Shermen).

History of Music: Stanford-Forsyth (Macmillan and Co.).

EXTERNAL STUDENTS.

The subjects offered to External Students for 1936 are:—

Latin I.; English I.; French II.; History I.; History II.: Economics I.; Economic History; Constitutional History and Political Science I.; Philosophy I.; Philosophy II.A; Pure Mathematics I.; Pure Mathematics II.; Roman Law; Constitutional Law; Music; Education.

Note.—Any subject for which less than three applications are received by 17th February, 1936, will be withdrawn from the above list.

Faculty of Science—B.Sc. Degree.

A.—PURE MATHEMATICS,
B.—APPLIED MATHEMATICS,
C.—STATISTICAL AND ACTUARIAL MATHEMATICS.

See Faculty of Arts, Courses XIII., XIV., and XV.

FOURTH YEAR HONOURS.

Candidates for Honours in Mathematics in the Faculty of Science will sit for their final examination in the March after their fourth Long Vacation.

The course of work will be that prescribed for Mathematics Honours in the Faculty of Arts, with such additional reading as may be prescribed.

D.—BIOLOGY, PART I.

Professor Goddard, Mr. Cayzer, Dr. Herbert, Mr. Perkins, and Mr. Macpherson; Mr. C. T. White (part time).

Biology I. includes Botany I and Zoology I.

Students in Science, Agriculture, Medicine, and Arts attending Courses in Biology must complete Biology I. in the First Year.

Dental Students take Zoology I. only.

Forestry Students take Botany I. only.

Botany and Zoology rank as separate subjects during Second, Third, and Fourth Years of the Science Curriculum.

XXI. ZOOLOGY, AND XXII. BOTANY.

(*a*) An Introductory Course (ten Lectures) dealing with Characteristics of Living Matter, Amœba as a type of Unicellular Organism, the Cell, Mitosis, Development of Multicellular Animal from fertilised egg (morula, blastula, gastrula, germinal layers, differentiation of tissues, development of organs), Comparison of Ovum and Spermatozoon, Unicellular Animal in relation to Multicellular Animal. Pleurococcus and Chlamydomonas as types of unicellular plant organisms, the Vegetable Cell, relation of unicellular plant to higher plants, differentiation of tissues. Comparison of a typical Animal with a typical Plant; Chlorophyll. Origin and Evolution of Animal and Plant forms. Osmosis in relation to Animal and Plant organisation. Homology and Analogy. Classification.

All students must attend this Course.

(*b*) Botany I. includes—

(1) A course of about thirty-five Lectures dealing with—Thallophyta (Cyanophyceæ, Myxomycetes, Algæ, Fungi, Lichens), Bryophyta (Mosses and Liverworts), Pteridophyta (Pteris, Aspidium, Selaginella), and Spermaphyta (Gymnosperms and Angiosperms); as well as the study of Plant Histology and Elementary Plant Physiology; and, if time permits, a brief introduction to the problems of Organic Evolution and Genetics.

(2) A Practical Course involving attendance in the Laboratory for two hours per week for three terms.

The laboratory work is supplemented by field work during terms and vacations.

Note-books must be kept up to date and handed in when requested; the records contained therein are assessed at regular intervals.

Text-book.

A Text-book of Botany: Lowson.

(*c*) Zoology I. includes—

(1) A course of about forty-five Lectures dealing with the following groups of Animals:—Protozoa, Porifera. Cœlenterata, Platyhelminthes, Nemathelminthes, Echinodermata, Annulata, Arthropoda, Mollusca, Urochorda, Cephalochorda, Vertebrata.

This course involves a study of the structure and life-history of respective types of the above groups, development of the Frog, development of the Chick, Fœtal Membranes of Mammals, Elementary Comparative Anatomy and Physiology of Vertebrata; and, if time permits, a brief introduction to the problems of Organic Evolution and Heredity.

(2) A practical course involving attendance in the Laboratory for two hours per week for three terms.

The laboratory work is supplemented by field work during terms and vacations.

Note-books must be kept up to date and handed in when requested; the records contained therein are assessed at regular intervals.

Text-book.

Manual of Zoology: Borradaile (latest Edition).

E.—ZOOLOGY, PART II. AND PART III.

Zoology II.

Second Year.

The following Courses, dealt with in about ninety Lectures, and a minimum of seven hours' laboratory practice per week, have been arranged primarily for students preparing to graduate with the B.Sc. Degree:—

(1) Morphology, Embryology and Physiology of Invertebrata, covered in lectures and practical classes, involving six hours per week for two terms, and three hours per week for third term.

Text-books.

Text-book of Zoology: Parker and Haswell, vol. i.
Text-book of Zoology: Sedgwick, vols. i. and iii.
Embryology of Invertebrata: MacBride.
Introduction to the Protozoa: Minchin.
Corals: Hickson.
Treatise on Zoology (edited by Lankester).
Cambridge Natural History.
Encyclopædia Britannica (Zoological Articles).
Animal Micrology: Guyer.

(2) Entomology, practical work involving one hour per week for two terms, and four hours per week for third term.

Text-books.

Insects of Australia and New Zealand: Tillyard.
Introduction to Entomology: Comstock.
A Manual of Entomology: Lefroy.

(3) A Course of ten Lectures during last term dealing with Theories of Organic Evolution.

Text-books.

Various volumes available in Departmental Library.

All students in Zoology II. will be expected to give attention to the working out of the life-history of three specified Australian Insects, and will be expected to hand in at the end of the year a collection of 300 species of classified Insects, as well as a representative set of slides made during the Course in Zoology II.

Special Course.—A Course in Agricultural Zoology, involving two Lectures and four hours' laboratory work per week, is delivered to Agriculture Students of the Second Year during three terms (See Faculty of Agriculture.)

ZOOLOGY III.

Third Year.

The following Courses, dealt with in about ninety Lectures, including a weekly seminar, and a minimum of nine hours' laboratory practice per week, have been arranged primarily for students preparing to graduate with the B.Sc. Degree:—

(1) A Course in the Comparative Anatomy, Embryology and Physiology of Chordata, dealt with in lectures and practical classes involving a minimum of six hours per week for three terms.

Text-books.

Comparative Anatomy of Vertebrata: Kingsley.
Essentials of Histology: Schafer.
Text-book of Anatomy (chapters dealing with the Nervous System): Cunningham.
Development of the Chick: Lillie.
Cambridge Natural History.
Text-book of Zoology: Parker and Haswell, vol. ii.
Text-book of Zoology: Sedgwick, vols. ii. and iii.
Treatise on Zoology (edited by Lankester).
Embryology of Vertebrates: Graham Kerr.
Handbook of Physiology: Halliburton.
The Vertebrate Skeleton: Reynolds.
Skeleton of Vertebrata: Kingsley.
Osteology of the Reptiles: Williston.

Other volumes recommended in class, and available in the Departmental Library.

(2) A practical Course in Histology, involving a minimum of two hours per week during three terms.

Text-books.

Essentials of Histology: Schafer.

Animal Micrology: Guyer.

(3) A Course of ten Lectures dealing with Animal Distribution, Zoogeographical Problems and Animal Ecology, given during Third Term.

Text-books.

Various volumes available in Departmental Library.

(4) A Course of five Lectures and five practical meetings of two hours each, dealing with Cytology, given during Third Term.

Text-books.

Cytology: Cowdry.

The Cell in Development and Inheritance: Wilson.

Cytology: Agar.

Cytology: Doncaster.

(5) A Course in Biological Philosophy and Genetics—One Lecture per week during First Term.

Text-books.

Animal Genetics: Crew.

Genetics in Relation to Agriculture: Babcock and Clausen.

Other volumes available in Departmental Library.

(6) Seminar—Preparation and discussion of set biological problems—one hour per week.

The laboratory work laid down for students attending Zoology II. and Zoology III. is supplemented by field work done during terms and vacations

Records of all work of a practical nature must be kept in an approved note-book, and such note-book must be handed in when requested. The records contained therein will be assessed at regular intervals. Students must hand in at the end of the year a representative set of slides made during the Zoology II. and Zoology III. Courses.

All practicable facilities will be offered to any approved person for the prosecution of original research.

FOURTH YEAR—HONOURS.

During this year students will be expected to pursue a set course of reading, to prepare essays on three set topics, to read and be prepared to discuss current zoological literature, to carry out field investigations, and attend such special Lecture courses as may be prescribed. It is expected that at least thirty hours per week will be devoted to this work.

F.—BOTANY, PART II. AND PART III.

Botany II.

Second Year.

The following Courses, dealt with in about ninety Lectures, and a minimum of seven hours' laboratory practice per week, have been arranged primarily for students preparing to graduate with the B.Sc. Degree.

Agriculture II. Students attend certain of these Courses, as indicated below.

(1) Morphology, Phylogeny, Physiology, Ecology, Geographical Distribution and Geological History of Thallophyta, Bryophyta and Pteridophyta, arranged as follows:—

(*a*) Algæ—Ten Lectures and ten two-hour practical periods during First Term for Science II. and Agriculture II. students.

(*b*) Bryophyta—Ten Lectures and ten two-hour practical periods during First Term for Science II. students.

(*c*) Fungi—Twenty Lectures and twenty two-hour practical periods during Second and Third Terms for Science II. and Agriculture II. students, together with an extra two-hour period during Third Term.

(*d*) Pteridophyta—Ten lectures and ten two-hour practical periods during Second Term for Science II. students.

Text-books.

Algæ: West.
Morphologie und Biologie der Algen: Oltmann.
Text-book of Botany (Algæ): Strasburger.
Text-book of Botany: Coulter, Barnes, and Cowles, vol. i.
Ascomycetes (Fungi): Gwynne Vaughan.
Comparative Morphology and Biology of the Fungi: De Bary.
Plant Mycology: Harshburger.
Rusts of Australia: McAlpine.
Smuts of Australia: McAlpine.
Bryophyta: Cavers.
Mosses and Ferns: Campbell.
Origin of a Land Flora: Bower.
Methods in Plant Histology: Chamberlain.

(2) Fossil Botany—Ten Lectures and ten practical periods of two hours each during Third Term for Science II. students, in conjunction with morphological studies in Pteridophyta.

Text-books.

Studies in Fossil Botany: Scott.
Fossil Plants: Seward.

(3) Physiology (Respiration, Nutrition, Growth and Movement)—Twenty Lectures and twenty two-hour practical periods during First and Second Terms for Science II. and Agriculture II. students.

Text-books.

Physiology: Jost.
Plant Physiology: Palladin.
Chemistry of Plant Products: Haas and Hill.

(4) Systematics of Angiosperms—One one-hour practical period per week during the Three Terms for Science II. and Agriculture II. students.

The note on a later page in reference to collections has a very special application to this section of the work.

Text-book.

Flowering Plants and Ferns: Willis.

(5) A Course of ten Lectures during the last Term dealing with Theories of Organic Evolution for Science II. and Agriculture II. students.

Various volumes available in Departmental Library.

Botany III.

Third Year.

The following Courses, dealt with in about ninety Lectures, including a weekly seminar and a minimum of nine hours' laboratory practice per week, have been arranged primarily for students preparing to graduate with the B.Sc. Degree.

Agriculture III. students attend certain of these Courses, as indicated below.

(1) Morphology of Gymnosperms and Angiosperms, Phylogeny, Physiology, Ecology, Geographical Distribution and Geological History of Gymnosperms and Angiosperms—Twenty Lectures and twenty three-hour practical periods arranged as follows:—

Agriculture III. students—First and Second Terms.

Science III. students—Second and Third Terms.

Text-books.

Special Morphology of the Angiosperms: Coulter and Chamberlain.
Special Morphology of the Gymnosperms: Coulter and Chamberlain.
Text-book of Botany: Coulter, Barnes, and Cowles, vols. i. and ii.
Text-book of Botany: Strasburger.
Physiological Plant Anatomy: Haberlandt.
Plant Anatomy: Stevens.

(2) Fossil Botany of Angiosperms and Gymnosperms—Five Lectures and five two-hour practical periods during Third Term for Science III. students.

Text-books.

Studies in Fossil Botany: Scott.
Fossil Plants: Seward.
Morphology of Gymnosperms: Chamberlain.

(3) Distribution and Principles of Ecology of Plants—Twenty Lectures during First and Second Terms for Science III. and Agriculture III. students.

Text-books.

Ecology: Warming.
Plant Geography: Schimper.

(4) Physiology—Twenty Lectures and thirty three-hour practical periods during First and Second Terms for Science III. and Agriculture III. students.

Text-books.

Physiology: Jost.
Plant Physiology: Palladin.
Physiology of Plants: Pfeffer.
Chemistry of Plant Products: Haas and Hill.
Organography of Plants: Goebel.

(5) Cytology—A Course of five Lectures and five practical periods of two hours each dealing with Cytology, given during Third Term to Science III. students.

Text-books.

Cytology: Cowdry.
The Cell in Development and Inheritance: Wilson.
Cytology: Agar.
Cytology: Doncaster.

(6) Biological Philosophy, Heredity, Variation, etc.—Ten Lectures given during Third Term to Science III. students.

Text-book.

Genetics in relation to Agriculture: Babcock and Clausen.

Other volumes available in Departmental Library.

(7) Economic Botany—Poisonous Plants and Weeds, Uses, etc. (done in conjunction with the Course on Ecology).

(8) Forest Botany—Twenty Lectures and twenty two-hour practical periods during First and Second Terms for Science III. and Agriculture students.

(9) Systematics of Angiosperms—One one-hour practical period per week during three terms, together with an additional four hours per week during the latter half of Third Term. See note *re* collections for Science III. and Agriculture III. students.

(10) Seminar—Preparation and discussion of set biological problems—one hour per week for Science III. and Agriculture III. students.

The laboratory work laid down for students attending Botany II. and Botany III. is supplemented by field work done during terms and vacations.

Records of all work of a practical nature must be kept in an approved note-book, and such note-book must be handed in when requested. The records contained therein will be assessed at regular intervals.

All practicable facilities will be offered to any approved person for the prosecution of original research.

Students in Botany II. and Botany III. will be required to hand in at the end of the year all preparations and collections made during the year. A list of the requirements in this connection is posted in the Department.

FOURTH YEAR—HONOURS.

During this year students will be expected to pursue a set course of reading, to prepare essays on three set topics, to read and be prepared to discuss current biological literature, to carry out field investigations, and attend such special Lecture-courses as may be prescribed. It is expected that at least thirty hours per week will be devoted to this work.

Special Course.—A Special Course in Plant Pathology, involving sixty Lectures and 120 hours' practical work during First and Second Terms for Agriculture III. students. (For details see Faculty of Agriculture.)

G.—CHEMISTRY.

XXIII. CHEMISTRY.

Professor Bagster, Dr. Jones, Mr. Hines, and Mr. O'Connor.

Lecture Courses.

FACULTY OF SCIENCE.

Part I.—First Year.

The Course comprises—

(*a*) A discussion of the fundamental laws of Chemistry, based upon the study of the chief non-metals.

(*b*) A discussion of the laws governing the behaviour of aqueous solutions.

(*c*) A systematic study of the chief metals, based upon the Periodic Law.

(*d*) A short Course in Elementary Organic Chemistry.

Part II.—Second Year.

(*a*) A Course of forty-five Lectures on General Physical Chemistry.

(*b*) A Course of ten Lectures on Inorganic Chemistry.

(*c*) A Course of thirty-five Lectures on Systematic Organic Chemistry.

Part III.—Third Year.

Chemistry III.A.

(*a*) Physical Chemistry: 30 lectures.
(*b*) Inorganic Chemistry: 10 lectures.
(*c*) Organic Chemistry: 20 lectures.
(*d*) Atomic and Molecular Theory: 15 lectures.
(*e*) Industrial Chemistry: 15 lectures.

Chemistry III.B.

(*a*) Organic Chemistry: 50 lectures.
(*b*) Physical Chemistry: 10 lectures.
(*c*) Part (*d*) of Chemistry III.A.
(*d*) Part (*e*) of Chemistry III.A.

Chemistry III.

(*a*) Parts (*a*), (*b*), (*d*) and (*e*) of Chemistry III.A.;
(*b*) Part (*a*) of Chemistry III.B.

Advanced Course for students taking Chemistry III. as the complete work of the third year: 30 lectures and prescribed reading.

Fourth Year.—Honours.

Students who have not studied Chemistry III. A. and B. during their third year must complete that portion which has been omitted. This may be done during the fourth year.

During the fourth year of their courses, students must pursue a course of reading, attend special courses of lectures, carry out laboratory investigations of minor problems, and such other laboratory work as may be prescribed.

Special stress will be laid on the study of current chemical literature and the writing of essays on set subjects.

At least thirty hours per week must be devoted to the work of the course.

DEPARTMENT OF APPLIED CHEMISTRY.

Part I.—First Year.

As for students in Pure Science.

Part II.—Second Year.

As for students in Pure Science.

Part III.—Third Year.

Students in Applied Chemistry will attend the Chemistry III.A. Course for pass students in Pure Science.

Part IV.—Fourth Year.

(*a*) A Course of Lectures on the Principles underlying the Selection of Process and the Design of Plant.

(*b*) A Course of Lectures on Chemical Technology dealing with—

(i.) Processes;

(ii.) Materials.

Faculty of Engineering.

Part I.—First Year.

Students will attend the course as prescribed for the first year of Science.

Part II.—Second Year.

Students during their second year will attend a special course, mainly practical, leading to the course in Engineering Chemistry in the third year.

Part III.—Third Year.

(*a*) *For Civil Engineering and Mechanical and Electrical Engineering Students—*

A Course of Lectures on Engineering Chemistry and Metallography.

(*b*) *For Chemical Engineering Students—*

Course (*a*), and in addition a course of about thirty lectures each in (1) Physical and Inorganic Chemistry and (2) Organic Chemistry.

Part IV.—Fourth Year.

Course (*a*) and prescribed portions of Course (*b*) for Science students.

Laboratory Work.

Faculty of Science.

First Year—Four hours per week.

Second Year—Eight hours per week.

Third Year—

Pass Students—Twelve hours per week for either Chemistry III.A or III.B.

Chemistry III. with second subject—Eighteen hours per week.

Chemistry III. with Advanced Chemistry—Twenty-four hours per week.

Students in Applied Science—Fifteen hours per week.

Fourth Year—

Students in Applied Science—Fifteen hours per week.

Honours Students—A minimum of thirty hours per week, inclusive of lectures.

Faculty of Engineering.

First Year—Four hours per week.

Second Year—Three hours per week, for about two terms, commencing in the first term.

Third Year—

Civil Engineering and Mechanical and Electrical Engineering Students—Fifty hours during first and second terms.

Chemical Engineering Students—Nine hours per week.

Fourth Year—Fifteen hours per week.

Books prescribed or recommended for Students in the Department of Chemistry.

For First-year Students—

Inorganic Chemistry: Alexander Smith;

Organic Chemistry: Macbeth; or

Class-book of Chemistry, Part V.: Donington.

Practical Chemistry: Bruce and Harper.

Students who have not studied Chemistry before entering on their University course are advised to provide themselves in addition with one of the simpler books on Elementary Chemistry, such as—

Class-book of Chemistry, Parts I.-IV.: Donington.

For Second-year Students—

Inorganic Chemistry—

Theoretical and Inorganic Chemistry: Philbrick and Holmgard.

For Reference.

Systematic Inorganic Chemistry: Caven and Landor.

Organic Chemistry—

Text-book of Organic Chemistry: Kipping and Kipping.

Physical Chemistry—

Introduction to Physical Chemistry: Findlay.

Laboratory Text-books—

Quantitative Chemical Analysis: Cumming and Kay;

Laboratory Experiments in Organic Chemistry: Adams and Johnson.

For Third-year Students—

Chemistry III.A and Chemistry III.B—

Organic Chemistry, Part III.: Kipping and Kipping.
Practical Physical Chemistry: Findlay.
Introduction to Industrial Chemistry: Levy.
Identification of Carbon Compounds: Weston.

For Reference.

Electron Theory of Valence: Sidgwick.

Chemistry III.A—

For Reference.

Recent Advances in Physical Chemistry: Glasstone.
Recent Advances in Physical and Inorganic Chemistry: Stewart.

Chemistry III.B—

Laboratory Methods of Organic Chemistry: Gattermann (1932 Edition).

For Reference.

Recent Advances in Organic Chemistry: Stewart.
Organic Chemistry, Translated Rule: Schmidt.

For Engineering Students—

Chemistry II. and III.—

Class Book of Physical Chemistry: Lowry and Sugden.
Chemistry of Engineering Materials: Leighou.

Chemistry III. (practical).—Engineering Chemistry: Stillman.

Chemistry for Engineers: Leighou.

For Fourth-year Students—

Applied Science and Chemical Engineering—

Industrial Chemistry, 3 volumes: Martin.

Elements of Chemical Engineering: Badger and McCabe.

For Reference.

Principles of Chemical Engineering: Walker, Lewis, and McAdams.

Selected portions of reference books provided in the Library will be prescribed.

A number of reference books are provided for the use of students in the Library of the Chemistry Department, which must on no account be removed from the Library.

H.—GEOLOGY AND MINERALOGY.

XXIV. GEOLOGY AND MINERALOGY.

Professor Richards, Dr. Bryan, and Dr. Whitehouse.

PART I.

For Arts, Science, Engineering, and Agriculture Students.

Lectures.—

(*a*) A course of sixty Lectures on Physiography, Crystallography, Mineralogy, Petrology, Tectonic Geology, and the Economic Geology of Clays, Building Stones, and Road Metals.

(*b*) A course of thirty Lectures on Cosmogony, Palæontology, and Australian Stratigraphy.

Laboratory Practice.—Three hours per week in studying Crystals, Rock-forming Minerals, Common Ores and Vein Stones, Rocks, Elementary Fossils, Geological Maps and Sections.

Field Work.—Approximately Ten Excursions during the year, including one of several days' duration.

PART II.

For Science Students.

Lectures—

(*a*) A course of thirty Lectures on Crystallography, Optical Mineralogy and Petrology.

(*b*) A course of thirty Lectures on Economic Geology.*

(*c*) A course of thirty Lectures on Palæontology and Stratigraphy.

Laboratory Practice.—At least seven hours per week in studying Crystals, Minerals, Rocks (both microscopically and megascopically), Blowpipe Analysis of Minerals, Palæontology, Field Mapping, and the Preparation of Rock Sections.

Field Work.—As prescribed.

For Students of Mining Engineering.

Lectures—

(*a*) A course of thirty Lectures on Crystallography, Mineralogy, and Petrology.

(*b*) A course of thirty Lectures on Economic Geology.

Laboratory Practice.—Five hours per week in studying Minerals and Rocks, in Blowpipe Analysis of Minerals, and in Field Mapping and the Preparation of Rock Sections.

Field Work.—As prescribed.

* Fourth-year students of Applied Science will attend this course.

For Agriculture Students.

Lectures—

(*a*) A course of thirty Lectures on Crystallography, Optical Mineralogy and Petrology.

(*b*) A course of thirty Lectures on Rock Weathering, Ground-water, Wells, Springs, Artesian Water, Irrigation, Soils, Soil Surveys, and Mineral Fertilisers.

Laboratory Practice.—Three hours per week in studying Minerals, Rocks, and Soils both microscopically and megascopically, and in Field Mapping.

Field Work.—As prescribed.

PART III.

Lectures—

(*a*) A course of thirty Lectures on Optical Mineralogy and Petrogenesis.

(*b*) A course of twenty Lectures on Major Geological Problems.

(*c*) A course of thirty Lectures on Evolutional Palæontology.

(*d*) A course of ten Lectures on the Geological Structure of the Continents.

Seminars.—Each student will prepare essays on two set topics as prescribed for reading and discussion.

Laboratory Practice.—As prescribed. At least nine hours per week.

Field Work.—As prescribed.

Fourth Year—Honours.

Lectures—

(*a*) A course of ten Lectures on Advanced Geology.

(*b*) A course of twenty Lectures on Problems of Australian Geology.

(*c*) A course of twenty Lectures on Stratigraphical Palæontology.

General.—During the year students will pursue a prescribed course of reading and prepare essays on two set topics. Students will also read and be prepared to discuss current geological literature.

Field Work.—As prescribed. (This will include the original geological investigation of some selected area.)

Special Course.

For students of Civil Engineering, Part III., a course of ten Lectures on Geological Problems affecting Engineering.

Text-books.

PART I.

Faculties of Arts, Science, Engineering, and Agriculture.

Text-book of Geology (Physical Geology): Longwell, Knopf, and Flint (John Wiley and Sons); or

Introduction to Geology: Vol. 1, 3rd Edition, by W. B. Scott (Macmillan and Co.).

Elements of Mineralogy: F. Rutley (Murby and Co.).

Petrology for Students: A. Harker (Cambridge University Press); or

Principles of Petrology: G. W. Tyrrell (Methuen and Co.).

Palæontology: H. Woods (Cambridge University Press); or

An Introduction to the Study of Fossils: 2nd Edition, by H. W. Shimer (Macmillan and Co.).

PART II.

Faculty of Science.

Minerals and the Microscope: H. G. Smith(Murby and Co.).

Petrology for Students: A. Harker (Cambridge University Press).

Principles of Petrology: G. W. Tyrrell (Methuen and Co.).

An Introduction to the Study of Fossils: 2nd Edition, by H. W. Shimer (Macmillan and Co.).

Economic Mineralogy: T. Crook (Longmans, Green, and Co.)

Geology of Metalliferous Deposits: R. H. Rastall (Cambridge University Press).

Applied Science.

Economic Mineralogy: T. Crook (Longmans, Green, and Co.).

Geology of Metalliferous Deposits: R. H. Rastall (Cambridge University Press).

Faculty of Agriculture.

Minerals and the Microscope: H. G. Smith (Murby and Co.).

Petrology for Students: A. Harker (Cambridge University Press); or

Principles of Petrology: G. W. Tyrrell (Metheun and Co.).

Soils—Their Origin, Constitution, and Classification: G. W. Robinson (Murby and Co.).

PART III.

Faculty of Science.

Rock Minerals: Iddings (Wiley and Sons).

Igneous Rocks, vol. 1: Iddings (Wiley and Sons).

Metamorphism: A. Harker (Methuen and Co.).

Physico-Chemical Geology: R. H. Rastall (Arnold).

Outlines of Palæontology: Swinnerton (Arnold).

Geographical Essays: Davis (Ginn and Co.).

Structural Geology: Nevin (John Wiley and Sons).

I.—PHYSICS.

XXV. PHYSICS.

Professor Parnell, Assistant Professor Lusby, and Mr. Rimmer.

PART I.

Lectures.

A Course of three Lectures weekly on Physical Measurements, Mechanics and Properties of Matter, Heat, Magnetism and Electricity, and Light.

Practical Work.

Three hours per week in the Laboratory.

Text-books recommended.

Text-Book of Physics: Duncan and Starling.
Practical Physics: Bower and Satterly.

PART II.

For Science and Engineering Students.

Courses of one Lecture per week each on—
General Properties of Matter and Heat;
Magnetism and Electricity.

(Additional for Science Students.)

A Course of one Lecture per week on—
Light, Sound, and Heat.

Practical Work.

For Engineering Students: Three hours per week in the laboratory in first and third terms. Six hours per week in second term.

For Science Students: Six hours per week in the laboratory.

Text-books recommended.

Properties of Matter: Poynting and Thomson.
Heat: Poynting and Thomson.
Sound: Poynting and Thomson.
Electricity and Magnetism: Starling.
Light: Edser.
Practical Physics: Glazebrook and Shaw

PART III.

Lectures—

A course of about seventy Lectures.

Laboratory Work—

Nine hours per week.

Courses of reading will be prescribed in conjunction with the Lecture Courses.

FOURTH YEAR—HONOURS.

Students will carry out such laboratory work, do such reading, and attend such lectures as may be prescribed.

The course will include one systematic experimental investigation and also the reading and discussion of papers in current journals.

Students will be expected to be in attendance at the University for at least thirty hours per week.

Faculty of Engineering—B.E. Degree.

Professor Hawken, Dr. Boyd, Mr. Ross, Mr. Munro, and Mr. Stoney.
Mr. James (Part Time).

XXVI. PRINCIPLES OF TECHNICAL DRAWING.

FIRST YEAR.

A Course of Twenty Lectures and Sixty Hours' Practical Work in Drawing Office.

Scales, Constructions relating to Straight Lines, Polygons, Circles, and Circular Arcs, Conic Sections, Cycloidal Curves, Involutes and Spirals. Principles of Orthographic Projection. Problems on Straight Lines and Planes. Projections of Solids. Projection from Oblique Planes. Interpenetration of Solids. Development of Surfaces. Construction of Paper Models. Isometric and Oblique Projection. Principles of Perspective Drawing.

Text-book.

Practical Geometry and Graphics: D. A. Low.

Reference Books.

The Theory of Engineering Drawing: Adler.

Practical Descriptive Geometry: Smith.

Practical Plane and Solid Geometry for Advanced Students: Harrison and Baxendall.

XXVII. ENGINEERING DRAWING AND DESIGN.

PART I.—FIRST YEAR.

A Course of Thirty Lectures.

Object of Machine Design. Mechanical Development and Specification. Theory and Production. Calculations. Notes and Records. Method of Design. Sketches. Analysis of Construction and Forces. Theoretical Design. Practical Modifications. Plans and Specifications.

Constructive Mechanics. Forces and Moments. Beams. Diagrams of Bending Moment and Shearing Forces. Cantilever. Concentrated and Distributed Load. Beam supported at ends—any arrangement of loads. Tension, Compression and Torsion. Working Stresses. Graphic Methods, Resultants, Moments, Simple Frames, Bows Notation. Discussion of formulæ— $f = \frac{P}{A}$: $M = \frac{fI}{n}$.

Materials—their uses and properties.

Fastenings—Bolts, Studs, &c. Keys, Pins, and Cotters. Shafts and Couplings. Friction Clutches. Journals. Bearings. Belts, Pulleys. Toothed Wheels. Riveted Joints. Pipes and Flanges.

Drawing Office—A Course of 150 Hours.

Lettering and Printing. Drawing of Details from Working Drawings. Sketching of Machine Parts. Preparation of Tracings.

Text-book.

Machine Design, Construction, and Drawing: Spooner.

Reference Books.

Mechanical Engineering: Lineham.
Mechanical Engineer's Pocket Book: Kent.

PART II.—SECOND YEAR.

Drawing Office—A Course of 210 Hours.

Designing and Making Complete Working Drawings of Details, such as—Crane Hook, Plummer Block, Stop and Safety Valves, Cocks, Thrust Bearings, Wall Brackets, Problems involving the design of spur, bevel, and worm gearing.

Complete Design of a Simple Vertical or Horizontal Steam Engine covering general arrangement and detail drawings.

The Lecture Courses for the above work are included in the Courses in Heat Engines, Part II., and Applied Mechanics.

Text-book.

Machine Design, Construction, and Drawing: Spooner; *or*
Principles of Machine Design: Norman.

PART III.—THIRD YEAR.

Drawing Office—300 Hours.

Design and Complete Working Drawings of a Small Structure, such as a Travelling Gantry, Lifting Footbridge, Wharf Crane, Tower for Small Suspension Bridge, Roof Truss, Plate Web Girder.

The student is expected to acquire a working knowledge of construction and drawing of details of joints and members for working conditions, the types of examples set having this object rather than the compilation of stress sheets.

The Lecture Course is included under Civil Engineering, Part I.

Students in Mechanical Engineering will be required, in addition to the above, to attend a course in Mechanical Design, including design of boilers, internal combustion engines, &c.

Text-book for Mechanical Design.

Principles of Machine Design: Norman.

PART IV.—FOURTH YEAR.

A.—Civil Engineering.

The Design and Specification of an Engineering Scheme (or portion of such), such as Road or Railway Bridge, Works for Water Supply or Sewerage, Dry Dock, Aeroplane Shed, High Building, Tower, &c.

The Lecture Course is included under Civil Engineering.

B.—Mechanical and Electrical Engineering.

The Design of Mechanical and Electrical Machinery and the lay-out of Power Plants and Generating Stations and Preparation of Specifications.

XXVIII. APPLIED MECHANICS.

SECOND YEAR.

A Course of Fifty Lectures.

(*a*) *Mechanics:* Constrained Motion, Relative Motion, Instantaneous or Virtual Centres. Centrode and Axode, Relative Velocities of Points and Bars in Mechanisms, Steam Engine Mechanism and its Inversions, Principle of Virtual Velocities applied to Mechanisms, Velocity and Acceleration Curves, Velocity Diagrams. Toothed Gearing, Wheel Trains, Epicyclic Trains.

(*b*) *Dynamics of the Steam Engine:* Influence of Short Connecting Rods, Correction of Indicator Diagrams for Inertia, Pressure on Crankpin, Cushioning, Twisting Moment Diagrams, Twisting Moment on Crankshaft, Flywheels, Coupling Rods, Connecting Rods. Balancing. Friction, Journals and Bearings, Lubrication. Governors.

(*c*) *Elasticity*: Stress and Strain, Characteristics of Materials. Shearing Forces, Compound Stresses. Strength of Cylinders under Internal Pressure, Lame's Theory.

(*d*) *Beams*: Bending Moments and Shearing Force Diagrams, Modulus of Section, Neutral Axis, Unsymmetrical Sections, Sections of Uniform Strength, Slope and Deflection of Beams. Combined Bending and Direct Stresses.

(*e*) *Columns:* Long and Short Columns, Euler's Formula, Empirical Formulæ.

(*f*) *Torsion*: General Theory, Shafts, Polar Modulus for Circular Sections, Strength of Shafts in Torsion, Twisting of Shafts, Torsion meters. Whirling of Shafts. Springs.

APPLIED MECHANICS LABORATORY.

A Course of Sixty Hours.

Measurements of Efficiency and Mechanical Advantages of Simple Machines, such as Screwpress, Pulley Block, Differential Pulley, Worm Wheel Crab, and Hydraulic Jack. Measurements of Friction Coefficients. Energy of Flywheel. Stresses in Simple Framed Structures. Simple Hydraulic Measurements. Fluid

Friction. Characteristics of Lubricants. Calibration of Gas Balancing Four-crank Engine. Tension and Compression Test Small Specimens.

Text-book.

Mechanics Applied to Engineering: Goodman.

Reference Books.

The Constructor: Reuleaux.
Mechanics of Machines: Kennedy.
Heat Engines: Inchley.
Mechanics of Engineering: Church.
Applied Mechanics: Cotterill.
Balancing: Dalby.
Engineering Construction in Steel and Timber: Warren.
The Theory of Machines: McKay.

XXIX. HEAT ENGINES.

PART I.—FIRST YEAR.

A Course of Ten Lectures.

Short History of the Development of Heat Motors. Elementary Theory of Heat Engines. Laws of Thermodynamics. Cycle of Operations of the Working Substance in a Heat Engine. Laws of Permanent Gases. Work done by an Expanding Fluid. Adiabatic Expansion. Isothermal Expansion. Carnot's Cycle of Operations. Efficiency of Carnot's Cycle. Reversed Carnot's Cycle. Efficiency of a Perfect Heat Engine.

Steam Engines: Slide valves. Lap and Lead. Angle of Advance. Construction of Valve Diagrams (Zeuner and Wave Form). Hypothetical Steam Engine Diagrams. Diagram Factor.

Reference Books.

Steam and other Engines: Duncan.
Heat Engines: D. A. Low.

PART II.—SECOND YEAR.

A Course of Fifty Lectures and Eighty Hours' Laboratory Practice.

Lecture Course.

Properties of Steam. Theory of the Steam Engine. Rankine's Cycle. Indicators. Indicator Diagrams. Hypothetical Diagrams. Diagram Factor. Cylinder Condensation. Jacketing. Ratio of Expansion. Two and Three Stage Expansion. Combined Diagrams. Slide Valves and Valve Setting. Valve Diagrams (Zeuner, Wave Form) for Expansion Valves. Reversing Gears.

Design of a Compound Steam Engine in Detail. Sizes of Cylinders for a given Indicated Horse-power. Crankshafts. Connecting Rods. Piston Rods. Pistons. Glands and Stuffing Boxes Cylinders. Ports and Passages. Valves, Covers, Bed Plates and Framings. Bearings. Eccentrics, &c.

The Testing of Steam Engines and Boilers for Efficiency. Fuels. Combustion. Boilers (Fire and Water Tube). Leading Types and their Relative Suitability for various purposes. Transmission of Heat through Plates. Grate Surface. Heating Surface. Details of Construction. Riveted Joints. Stayed Surfaces. Stays, Furnaces. Chimneys. Fittings and Mountings. Board of Trade and Lloyd's Requirements. Maintenance and Operation.

Mechanical Refrigeration. Compressors. Air Compressors. Cold Air Engines.

Internal Combustion Engines. Cycles of Operation. Leading Types of Gas Engines. Suction Gas Plants. Producers. Oil Engines (for refined and crude oils). Petrol Engines. Power Ratings. Testing of Gas and Oil Engines for Efficiency.

Laboratory Course.

Drawing the Valve Diagrams and Setting the Valves of a Simple Engine with D and Piston Type Valve. Meyer Expansion Valve. Link Motions.

Use of Indicator and Brakes. Tests of Steam and Gas Engines for Mechanical Efficiency.

Preliminary Tests for Evaporative Capacity of Boilers. Steam Consumption Tests of an Engine.

Text-books.

Heat Engines: D. A. Low.

Mechanical Engineering: Lineham.

Pocket Book of Marine Engineering Rules and Tables: Seaton and Rounthwaite.

Reference Books.

The Steam Engine and other Heat Engines: Ewing.

History of the Steam Engine: Thurston.

Steam Tables: Marks and Davis.

Steam Boilers: Parsons.

PART III.—THIRD YEAR.

A Course of Sixty Lectures with Laboratory Practice.

Advanced Theory of Heat Engines. Thermodynamic Surface. Pressure Volume Path of Perfect Gases. Entropy. Entropy Temperature Diagrams. Mollier's Diagrams for Steam (Entropy—total heat pressure—total heat). Conditions affecting Economy. Cyclical Flow of Heat in the Metal Cylinder Walls of Heat Engines. Detailed Consideration of Heat Losses. Standard Methods of Conducting Engine and Boiler Trials. Detailed Analysis of Data obtained from Trials.

Boiler-house Plant. Further Details with regard to Boilers. Superheaters. Economisers. Flues and Chimneys. Forced

Draught. Fuel and Gas Analysis. Smoke Abatement. Pressure. Draught and CO_2 Recorders. Mechanical Stokers. Feed Pumps. Injectors. Piping Arrangements.

Further Consideration of Types of Steam Engines. Corliss Valve Gear. Drop Valve Gear.

Theory of Steam Turbines. Conversion of Heat into Velocity. The Turbine Cycle. Practical Losses. Effect of Vacuum and Superheat. Rate of Flow. Efficiency in directing Velocities. Design of Impulse and Reaction Turbines. Commercial Types and Applications.

Jet Condensers. Surface Condensers. Tube Surface. Surface Section Ratio. Cooling Towers. Evaporative Condensers. Air Pumps. Wet and Dry Systems. Types (Edwards, Leblanc, Kinetic, &c.).

Mechanical Refrigeration. Air Machines. Vapour Compression Machines. The Cycle. Choice of Fluid. Tonnage Rating. Compressors—various types of machines—absorption system.

Compressed Air. The Cold-air Engine. Cycle. Temperature Fall. Preheaters. The Compressor. Cycle. Form of Compression Curve. Jackets. Multi-stage Compression. Intercooling. Relation of Engine and Compressor. Losses. Efficiency. Design of Compressor. Commercial Types.

Internal Combustion Engines. Fuels. Gas Producers (Pressure and Suction). Action in the Producer. Producer Efficiency. Comparison of Gas Engine Cycles. Mixture. Compression. Ignition. Expansion. Scavenging. Standard Reference Diagram. Diagram Factor. Principles of Design and Efficiency. Governing. Commercial Internal Combustion Engines. Humphrey's Internal Combustion Pump. Results and Analysis of Tests.

Text-books.

Heat Engines: Inchley.

Applied Thermodynamics for Engineers: Ennis.

Books for Reference.

Manual of the Steam Engine: Thurston.

Marine Engines and Boilers: Bauer and Robertson.

The Steam Turbine: Goudie.

Modern Refrigerating Machinery: Lorenz, Pope, Haven, and Deane.

Internal Combustion Engines: Carpenter and Diederichs.

Compressed Air: Hiscox.

The Gas, Petrol, and Oil Engine: D. Clerk.

XXX. CIVIL ENGINEERING.

INCLUDING MATERIALS TESTING.

PART I.—THIRD YEAR.

Seventy Hours' Lectures and Forty-five Hours' Laboratory.

The course, which includes Materials, Structures, and General Construction, is to be taken by all students in each of the departments—Civil, Mechanical and Electrical, Mining, and Chemical.

Materials.—Investigation of strains and stresses, tensile, compressive, bending, torsion; fundamental formulæ and measurements. Properties of cast iron, wrought iron, steel, alloys, stones, limes, mortars, brick, cement, concrete, timber (especially Australian), other engineering materials.

Various tests and testing machines, experimental data, average values, and modifications to be expected. Laboratory practice supplemented by study of standard results.

Structures.—A knowledge of Engineering Mechanics covered by the second-year syllabus is assumed. Students are expected to become familiar with the principles of theory and design of the more simple structures, and to acquire a thorough knowledge of design of details of members and joints; also, to practise the drawing up of specifications and estimates of costs.

Beams and Girders.—Influence lines, effect lines, position of moving loads for maximum bending moment and for maximum shear, moment of resistance, neutral axis, ellipse of inertia, modulus of rupture, distribution and intensity of shear. Factors of safety, working stresses. Sizes and shapes to resist various stresses. Joints and connections, general features and details of design. Graphical and analytical methods of analysis. Stiffness of beams. Beams of uniform strength. Deflection theorems. Continuous girder theory and design.

Framed Structures.—Analysis of loads, dead load, wind and other live loads, conventional assumptions; empirical and other formulæ.

Stresses in members, outline summary of methods of investigation, graphic methods, analytic methods. Various types of roof and other trusses, trestles, bracing, three-hinged arches; methods suited to each. Sizes and sections best adapted for conditions imposed.

Tension members, compression members: design of joints, pin and riveted: a short investigation of theory and design of columns: various formulæ.

Deflection of trusses, effect of shape on stiffness.

Reinforced Concrete.—An elementary treatment of principles (see under XXXVI., Special Lectures and Courses, page 153).

Masonry and Monolithic Structures.—Definitions, fundamental theory of internal stress, limiting pressures, ellipse of stress, earth pressure, water pressure. Design of small dams, weirs, arches, tunnels, piers, retaining walls.

Foundations.—Preliminary tests required, safe loads in various strata, tests and preliminary investigations; principles of construction in firm and in heavy ground; foundations for machinery; piles, grills, coffer dams, caissons.

General Construction.—An introductory course in several branches. Students are expected to do the reading of descriptive matter on lines indicated in lectures; also, to keep in touch with current engineering literature.

Roads.—Various types in country and city; principles of location, ruling grades, tractive resistance, construction, durability of coverings used; provisions for drainage, principles of maintenance.

Railways.—Principles of location; estimates of revenue and maintenance; earthwork, drainage, permanent way; methods of working to ensure safety; interlocking signals; locomotive traction; types of locomotives.

Water Supply and Sanitary Engineering.—(Flow of water as applying to water supply and sewerage, pumping machinery, &c., are treated under "Hydraulics.")

Sources of supply above and below ground; amount of water required for various purposes; reservoirs; construction of dams, earth, masonry; headworks, filter beds, theory and design; distribution works, pipe lines and connections, conduits; influence of water supply on health.

Collection and disposal of sewage; sewage farms, discharge into streams or ocean; purification works; refuse destructors.

Harbours and Docks.—Harbour requirements, river mouths, maintenance of depth, effect of waves and tides; construction of breakwaters; foundations, materials; description of various harbours.

Construction of docks; various appliances, machinery and materials, dock walls, dock entrances, graving and repairing docks, jetties, wharves, piers.

Text-books.

Theory and Design of Structures: Andrews.
Civil Engineering as applied to Construction: Vernon-Harcourt.
Coane's Australian Roads: Coutie.

Reference Books.

Further Problems: Andrews.
Engineering Construction in Steel and Timber: Warren, vol. i.
Elements of Railroad Engineering: Raymond.
Steel Mill Buildings and Handbook: Ketchum.
Materials of Construction: Johnson.

Materials of Construction: Mills.
Strength of Materials and Theory of Structures: Morley.
Modern Sewerage Practice: Adams.

For more detailed and advanced study, see list under "Civil Engineering II."

PART II.—FOURTH YEAR.

For Students in Civil Engineering only. During this year the student is expected to complete a thesis on an approved subject or a design in construction; encouragement is given, within limits, to original and specialised work.

Short courses of lectures by specialists in several of the branches have been arranged.

Instruction will be carried on by the Seminar system which may include formal lectures, but which will mainly endeavour to guide students' reading and practical work, and to fix and amplify the students' knowledge by discussion.

Students are required to read engineering journals and scientific papers bearing on the subjects treated, and to record their work by means of card indexing.

Materials and Structures.—Results of recent research, micro-photography of metals, more detailed treatment of strain and stress —redundant members—influence lines.

Higher Structures.—Arches without hinges, two-hinged arches, braced arches, suspension bridges, continuous girders, swing bridges, long-span bridges; modern loading and treatment; high buildings; erection stresses. Estimates and costs of work.

Reinforced Concrete.—Advanced theory (see under XXXVI. Special Lectures, page 153).

General Construction.—Bridge piers, location, economic distribution; special foundations, coffer dams, open caisson, cribs, cylinders, deep foundations, methods of sinking, open cribs, dredging, pneumatic caisson, air locks. Theory and practice of pile foundations, screwed piles.

High dam design, curved dams; retaining walls (theory of earth pressure). Masonry arches, definitions, joints of rupture, elastic theory, methods of design, description of various existing types.

Roads.—The Good Road Problem, economy of proper alignment and construction, comparison of various coverings, road machinery; various types of drainage openings; principles of maintenance, traffic data. Pavements, foundations, Australian and foreign practice, macadam, asphalt, brick, pitching, wood, bitumen, concrete.

Tramways.—Types of traction, construction details, financial data, railless tramways.

Railways.—More detailed study of location; limiting economy of grades, curves, various gauges and types; train resistance; ruling grade; rolling stock and permanent way for various kinds of traffic; points and crossings, interlocking signals, maintenance. Light railways, narrow-gauge railways, rack and other steep-grade railways.

Water Supply and Sanitary Engineering.—Necessity of water service: statistics of requirements and effect on public health; sources of supply, methods of collection, detail investigation of design and headworks and distribution works, measurement of supply. Systems of sewerage, conduit design, details of construction, subsoil drainage, disposal of sewage, disposal of garbage, destructors.

Rivers, Harbours, and Docks.—Action of rivers; measurement of discharge, protection of banks; locks, weirs, conservation of water, outlet works, training walls; problems in design; description of various harbours; materials used in construction of works; action of winds, waves, tides; breakwaters, dredging, lighting, coast protection; dock walls, entrances, dock gates, dock machinery, graving docks, wharves.

Canals, Irrigation.—Navigation canals, irrigation canals, description of locks and lock machinery; inclines, lifts; irrigation data, principles of irrigation, duty of water. Examples in foreign countries and in Australia.

Reference Books.

Series of Practical Structural Engineering Handbooks: Hool and Kinne.
Engineering Construction: Warren, vol. ii.
Modern Framed Structures: Johnson Bryan and Turneaure.
Masonry Construction: Baker.
Practical Treatise on Foundations: Patton.
Harbour Engineering: Cunningham.
Notes on Dock and Dock Construction: Colson.
Sanitary Engineering: Moore and Silcock.
Railway Track and Track Works: Tratman.
Railway Location: Wellington.
Public Water Supplies: Turneaure and Russell.
Irrigation Engineering: Wilson.
Irrigation Works in India: Buckley.
Principles of Reinforced Concrete: Turneaure and Maurer.
Handbook of Costs Data:Gillette.
Civil Engineer's Pocket Book: Merriman.
British Standard Specifications: Inst. C.E.
Standards Association of Australia Specifications.
Reinforced Concrete Construction: Hool.
Columns: Salmon.
Materials and Structures: Salmon.
Engineer's Handbook: Hool and Johnson.
Main Roads Commission Reports.
Irrigation Commission Reports.
Sewerage and Sewage Disposal: Metcalfe and Eddy.

Design of Bridges: Waddell.
Theory of Structures: Coultas.
Estimates and Contract Costs: McClelland.
Publications by the Staff.
Selected Theses of Graduates.
Walter and Eliza Hall Reports.

XXXI. HYDRAULICS.

PART A.—THIRD YEAR.

FOR STUDENTS IN ALL BRANCHES.

A Course of Thirty Lectures and Forty-five Hours' Laboratory Practice.

Part I.—Lecture Course.

Fluids at Rest.—Intensity of pressure. Pressure at any point in a fluid. Fluids at rest with free surface horizontal. Pressure head. Gauges.

Floating Bodies.—Conditions of equilibrium—Archimedes' Principle. Centre of buoyancy. Stability. Metacentre, stability of ships.

Fluids in Motion.—Steady motion. Stream-line motion. Definitions. Bernouilli's Theorem. Venturi meter. Extension of Bernouilli's Theorem.

Flow of Water through Orifices and over Weirs.—Coefficients. Various types of orifices. Notches and weirs. Derivation of equations. Thomson's principle of similarity. Empirical constants. Various forms of weirs. Recent research.

Flow through Pipes.—Losses. Hydraulic gradient. Hydraulic mean depth. Slope. Empirical formulæ.

Hydraulic Machines.—General: Impact of water on vanes. Water wheels. Turbines—reaction turbines—outward, inward, and axial flow. Design of vanes and blades. Calculation of losses and efficiency. Application of Bernouilli's Equations. Regulation of turbines. Choice of turbines. Impulse wheels. Pelton wheels.

Pumps.—Reciprocating pumps, plunger type and ram type. Centrifugal pumps and turbine pumps—general considerations, forms of vanes—design for a given discharge. Centrifugal head impressed on water. Losses in pumps. Efficiency of centrifugal and turbine pumps. Hydraulic ram. Lifting water by compressed air.

Internal Combustion Pumps.—Principles of action and general description of existing types.

Laboratory Practice.

Calibration of triangular and rectangular notches. Deduction of constants for various forms of orifices under various heads. Tests of centrifugal pumps. Test of Pelton wheel. Calibration of water meters. Tests of Francis turbine. Tests of reciprocating pumps, ram and plunger type. Flow of water in pipes and in an open channel.

Text-book.

Hydraulics: Lea.

Reference Books

Centrifugal Pumps: Higgins.
Treatise on Hydraulics: Unwin.
Treatise on Hydraulics: Merriman.
Hydraulics: Gibson.
Hydraulic Motors: Church.
Pumping Machinery: Green.

PART B.—FOURTH YEAR.

FOR STUDENTS IN CIVIL ENGINEERING.

A Course of Ten Lectures and Thirty Hours' Laboratory and Field Practice.

Flow of liquids in open channels and in pipes. Discussion various theories and results of experimental research. Streamline and turbulent flow. Hydraulic principles involved in the design of water supply, sewerage, and irrigation works. Sources and measurements of water supply. Computations of run-off. Potential and recorded flood discharge. Hydraulics of wells. Non-uniform flow. Changes of level due to obstructions. The Backwater Function Flow round river bends.

Laboratory and Field Work.

Channel Experiments—Pipe Experiments—Effects of Bends—River Discharge, Measurements, Cross Sectioning, Use of Floats, &c.—Current Meter.

Reference Books.

Flow of Water in Open Channels: Ganguillet and Kutter.
Sanitary Engineering: Moore and Silcock.
Calculations in Hydraulic Engineering: Fidler.
Hydraulics: Gibson.
Public Water Supplies: Turneaure and Russell.
Hydraulics: Merriman.
Water Channels: Higgins.
Control of Water: Parker.

XXXII. SURVEYING.

PART I.—THIRD YEAR.

A course of sixty Lectures and 125 hours' Field and Office Work, to be taken by students of the third year in Civil Engineering; for students of the third year in Mechanical, Electrical, and Mining Engineering, the course will consist of forty Lectures and 60 hours' Field and Office Work. Students are expected to acquire a working knowledge of the various instruments, and especially familiarity by constant practice with use and adjustments of the level and theodolite, together with the calculations pertaining; also, with the keeping of field records systematically and correctly.

Principles and practice of chaining with chain, tapes, and long wires; corrections for sag, temperature, &c. Slope chainage and computations; surveys with chain alone.

Methods used in surveying for locating points. Short history of the art of surveying. Theory and description of various instruments with their adjustments (compass, theodolite, level, plane-table, barometer, clinometer); calculations pertaining to surveying. Drawing office instruments, plotting, and plan drawing. Elementary stadia survey. Railway location curves, transition curves.

Earthwork and calculations of volumes; estimates of cut and fill; prismoidal formulæ, application and modifications; cross sections; contour lines.

Solution of simple problems in land survey and engineering.

Survey of streams; measurement of discharge by floats, current meters, &c.

Elementary field astronomy; location of meridian and use to check survey.

Elementary mine surveying, including mine surveying problems and special methods on the surface and below; transfer of the meridian below ground; tunnel alignment; survey of bore holes.

Practice work throughout the year is essential, and includes one week's camp in the August vacation. Students in Civil Engineering and Mining will go into the field during vacation between third and fourth years.

Text-book.

A text-book of Theodolite Surveying and Levelling: Park.

Reference Books.

Pocket Manual of Surveying: Cardew.
Field Engineer's Handbook: Wells and Clay.
A Treatise on Surveying: Middleton and Chadwick.
Treatise on Mine Surveying: Brough.
Australian Handbook for Government Surveyors: Harris.
Theory and Practice of Surveying: Johnson and Smith.
Practical Coal Mining (surveying portion): Boulton.
Astronomy for Surveyors: Chapman.

PART II.—FOURTH YEAR.

To be taken by Civil Engineering students. The course will cover the ground required by an Authorised Surveyor.

Reconnaissance survey; refinements of survey work; tacheometry, topographical survey; curve ranging; setting out; levelling; extended practice with instruments; barometrical levelling; hypsometry; land surveying problems; conditions, Australian and foreign; city surveying; identification survey; subdivision of lands. Earthwork volumes, calculation tables.

Field astronomy, determination of latitude, azimuth and time by the several methods; elementary geodesy, convergence of meridians; correction of surveys; least squares; projection of maps; systems of keeping field records, plotting and drawing. Hydrographic surveying, the three-point problem, location of soundings.

Practical Work.—One day per week throughout the Terms. and one week of the August vacation.

Reference Books.

Geodesy and Least Squares: Crandall.
Preliminary Survey and Estimates: Gribble.
Practical Astronomy: Doolittle.
Text-book on Geodetic Astronomy: Hayford.
Precise Surveying and Geodesy: Merriman.
The Effects of Errors in Surveying: Briggs.
The Instructions and Regulations of the various Australasian States.

XXXIII. BUILDING CONSTRUCTION AND ARCHITECTURE

ALTERNATIVELY IN THIRD AND FOURTH YEARS.

For Students in Civil Engineering and Chemical Engineering.

Building Construction.

Foundations.—Foundations for various soils, reinforced foundations, pile foundations.

Brickwork.—Limes and cement, various bonds, hollow walls, &c.

Stonework.—Constituents of building stones, Queensland building stones, different kinds of masonry work, construction of masonry work, cornices, &c.

Carpentry.—Australian building timbers, construction of floors, roofs, partitions, &c.

Joinery.—Doors, windows, skirtings, panelling, jamb linings, staircases, &c.

Iron and Steel Work.—Girders, roof principals, columns and stanchions, fire protection in buildings.

Plumbing.—Plumbing in connection with buildings, sanitary plumbing.

Drainage.—Laying of drains, manholes, various kinds of traps, &c.

History of Architecture.

Features of the following styles, with considerations of prominent examples of them:—

Egyptian and Assyrian, Greek, Roman, Byzantine, Romanesque, Early English Gothic, Decorated Gothic, Perpendicular Gothic, and Renaissance.

XXXIV. ELECTRICAL ENGINEERING.

THIRD YEAR.

I. A course of thirty Lectures and sixty hours' Laboratory Practice for third-year Civil, Mechanical, Electrical, and Mining Engineers.

Construction of direct and alternating current generators and motors, characteristics of various types, and applicability for different purposes, rotary converters, boosters, transformers, switchgear, controllers, instruments, direct and alternating current distribution systems, storage batteries and their operation, lighting, wiring. Fire Underwriters' regulations.

II. A course of thirty Lectures for third-year Mechanical and Electrical Engineers.

Calculation of open circuit characteristics, coefficient of leakage, field coils, estimation of copper, effects of various factors on weight of copper in field coils, armature windings for direct-current machines, size and number of slots, estimation of copper, iron losses in practical machines, load loss, ventilation and permissible watts per square inch, calculation of output for given temperature rises, commutators, brushes, commutation, calculation of reactance voltage, design of commutation poles, equalizing rings, efficiency and loss in direct-current machines, compounding, method of selection of size of machine for given output and speed, heating on other than continuous running, short-time runs, overload.

Theory of alternating currents, form factor, vectors, inductances, transmission line drop, growth of flux, condensers, capacity of transmission lines, measurement of power, transformers, vector diagram, short-circuit diagram, regulation, alternators, vector diagram voltage rise and fall, short-circuit characteristic methods of determining leakage reactance, induction motors, Heyland diagram

Laboratory Course.

Switchboard operation, testing machines for efficiency, heating and regulation, calibration of instruments, location of faults.

Text-book.

Standard Handbook for Electrical Engineers (McGraw, publisher).

FOURTH YEAR.

III. A course of sixty Lectures and 180 hours' Laboratory Practice for fourth-year Electrical and Mechanical Students.

Electrical and mechanical design of direct and alternating current generators and motors, static transformers, rotary converters, automatic reversible boosters, lifting magnets, starters, controllers and regulators, condensers, switch gear, distribution systems, long-distance transmission lines, power station layouts, electric traction, storage battery engineering, lighting, cable laying and wiring, power factor correction with rotary and static condensers and phase advancers, economics of design of machinery and installations, preparation of estimates and specifications.

Laboratory Course.

Separation of losses in machines, efficiency, temperature, and regulation tests of direct-current, single-phase, and polyphase machines and transformers, calibration of instruments, synchronising and resonance effects, oscillograph tests, cable testing, lamp testing, extra high tension tests, absorption and mechanical tests of line insulators, testing of transformer oils, characteristics of lightning arresters.

Text-books.

Alternating-current Motors: McAllister.

Electric Railway Engineering: Parshall and Hobart.

Electric Distributing Networks: Hay.

Electric Journals and Journal of Institution of Electrical Engineers.

Specification and Design of Dynamo Electric Machinery: Miles Walker.

Design of Alternating-current Machinery: Barr and Archibald.

Electrical Measuring Instruments: Drysdale and Jolley.

XXXV. MECHANICAL ENGINEERING.

FOURTH YEAR.

For Students in Mechanical and Electrical Engineering only.

During this year the student will be required to complete a thesis on an approved subject or the design of some selected mechanical or electrical plan or apparatus: encouragement is given within limits to original and specialised work.

Instruction will be carried on by the Seminar system, which will endeavour mainly to guide students' reading and practical work and fix and amplify the students' knowledge by discussion. Some formal lectures will also be given by the staff and by honorary lecturers who are specialists in some particular line of engineering.

Joint sessions with the Civil Engineering Seminar will occasionally be held to discuss topics of common interest.

The scope of the work will include the design of generating stations, economics of power generation, methods of testing boilers, steam plant, internal combustion engines, refrigerating plants, air compressor pumps, turbines, preparation of estimates, organisation, cost of production, and the commercial aspect of engineering generally.

A considerable portion of the students' time will be spent in carrying out tests of steam plant, boilers, internal combustion engines, refrigerating plants, &c., and in investigating special problems in connection therewith.

Students are required to read engineering journals and scientific papers bearing on the subjects treated and to record their work by card indexing.

The results of all investigations and tests carried out by the student are required to be presented in the form of precise reports which are preserved as a record of the year's work.

XXXVI. SPECIAL LECTURES AND COURSES.

Fitting and Machining.

Instruction by a skilled mechanic is given to students of first and fourth years. Practical work is done on Saturday mornings in the workshops of the Central Technical College.

Reinforced Concrete.

A course of five Lectures in the third year and ten Lectures in the fourth year.

Third Year: Fundamental theory of design and distribution of stresses in beams and columns. Calculations of extreme fibre stresses and moments of resistance; methods of shear reinforcement with calculations of stresses; bond stresses. Complete design of the more common types of reinforced concrete members such as floor slabs, rectangular beams, tee beams, and columns.

Reference Books.

Reinforced Concrete Construction, vol. i.: Hool.
Concrete Engineers' Handbook: Hool and Johnson.

Fourth Year: Advanced theory and design. Combined bending and direct stresses. Deflections. Application of general principles of design of higher structures to reinforced concrete construction such as continuous girders, incomplete and redundant structures, monolithic building construction, arch analysis and design.

The student is expected to familiarise himself with the various types of structures commonly built in reinforced concrete.

Scientific proportioning, mixing, placing, and curing of concrete and the resulting effect on its strength.

Specifications for design and construction, and city building regulations.

Engineering Economics.

Six Lectures by the Professor of History and Economics to all Fourth-year Students.

(*a*) Instruction in Terms and General Principles of Economics and Business Management;

(*b*) Direction of Reading; and

(*c*) Discussion of a few selected Topics.

Business Organisation, Management, and Practice.

A Course of Twelve Lectures.

(*a*) *Organisation and Management:* General review of requirements and main features to be introduced when planning an ideal organisation. Detailed review of the principles and basic factors essential for efficient management and control.

(*b*) *Business Practice:* Conditions governing the purchase and sale of goods. Forms and documents used in connection with purchases and sales. Banks and their functions. Cheques. Bills of

exchange. Promissory notes. Forms and documents used in connection with the receipt and payment of money. Commercial relations between persons. Sole traders. Partnerships. Companies.

(*c*) *Manufacturing Costs:* General survey of the principles of costing. Relationship of costing to business efficiency. Elements of cost. Divisions of cost and allocation thereof to manufactured articles. Stores records. The routine of purchasing, recording, and issue of materials to jobs. Wages records. The routine of time-keeping and the methods of determining and apportioning wages costs. Standards of measurement for allocating on cost. General mechanism of cost accounting.

RAILWAY SIGNALLING.

Three Lectures and demonstration in the field.

ELECTRIC WELDING.

Two Lectures and demonstration.

SUB-STATION ENGINEERING.

Three Lectures and one demonstration.

ENGINEERING GEOLOGY.

Ten Lectures by the Professor of Geology on general problems affecting Engineering.

Diploma in Mechanical and Electrical Engineering.

SYLLABUS.

FIRST YEAR.

(*a*) Mathematics.

(*b*) Mechanical Drawing.

MATHEMATICS.

Algebra: As for the University Junior Public Examination with the following additional:—The Three Progressions: The Properties and Use of Logarithms.

Geometry: As for the University Junior Public Examination, with the following additional:—Ratio and Proportion, Loci, Inverse Points, Elementary Solid Geometry.

Trigonometry: Up to and including solution of triangles.

MECHANICAL DRAWING.

Lecture Courses

(*a*) Technical Drawing: Scales, Constructions relating to Straight Lines, Polygons, Circles, and Circular Arcs, Conic Sections, Cycloidal Curves, Involutes, and Spirals. Principles of Orthographic Projection. Elementary Problems on Straight Lines and Planes. Projections of Solids. Interpenetration of Solids Development of Surfaces. Isometric and Oblique Projection Principles of Perspective Projection.

(*b*) Object of Machine Design. Mechanical Development and Specification. Theory and Production. Calculations. Notes and Records. Method of Design. Sketches. Analysis of Construction and Forces. Theoretical Design. Practical Modifications. Plans and Specifications. Constructive Mechanics. Forces and Moments. Beams. Diagrams of Bending Moment and Shearing Forces. Cantilever. Concentrated and Distributed Load. Beam Supported at ends—any arrangement of loads. Tension, Compression and Torsion. Discussion of formulæ—$f=\frac{P}{A}$; $M=\frac{fI}{n}$. Working Stresses Materials—their uses and properties. Lubrication. Fastenings—Bolts, Studs, &c. Keys, Pins, and Cotters. Shafts and Couplings. Friction Clutches. Journals. Bearings. Belts. Pulleys. Toothed Wheels. Riveted Joints. Pipes and Flanges.

Drawing Office Practice.

(*c*) Technical Drawing: Students should complete a series of exercises illustrative of the problems considered in class-work.

(*d*) Drawing: Lettering and printing. Drawing of details from working drawings. Sketching of machine parts. Preparation of tracings.

(*e*) Advanced drawing of machine details and assemblies.

(*f*) Design of a simple machine in detail.

In the first two years of the course Parts (*a*), (*c*), and (*d*) should be covered.

In the third year Parts (*b*) and (*e*) should be covered, and in the fourth year Part (*f*).

Text-book.

Machine Design, Construction, and Drawing: Spooner.

Reference Books

Mechanical Engineering: Lineham.

Mechanical Engineer's Pocket-book: Kent.

SECOND YEAR.

(*a*) Applied Mathematics.

(*b*) Physics.

(*c*) Mechanical Drawing.

APPLIED MATHEMATICS.

Kinematics: Displacement, Velocity, Acceleration. Motion of Particle in Straight Line with Constant Acceleration. Acceleration due to Gravity. Elementary Theory of Vectors with Special Application to Composition of Displacement, Velocity, Acceleration

Motion of Particle with Constant Acceleration in Direction Oblique to Path. Angular Velocity and Acceleration. Motion in a Circle. Simple Harmonic Motion.

Kinetics: The Laws of Motion. Mass, Momentum, Force, Work, Energy, Power. Conservation of Linear Momentum and Conservation of Energy. Collisions. Simple Pendulum. Conical Pendulum.

Statics: Reduction of a System of Forces in a Plane. Friction. Mass Centres. Equilibrium of Rigid Bodies in a Plane.

Hydrostatics: Fluid Pressure. Centre of Pressure. Conditions of Equilibrium of Floating Bodies. Stability for Non-rational Displacements. The Gas Laws.

PHYSICS.

Physics I.: As for University Junior Public Examination, with experimental work.

Physics II.: As for University Senior Public Examination, with experimental work.

THIRD YEAR.

(*a*) Physics.

(*b*) Applied Mechanics.

(*c*) Mechanical Drawing.

APPLIED MECHANICS.

Lecture Course.

Definition of a Machine. Steam Engine Mechanism and its Inversions. Velocity Diagrams. Toothed Gearing. Dynamics of the Steam Engine. Indicator Diagrams. Correction of Indicator Diagrams for Inertia. Twisting Moment Diagrams. Flywheels. Governors. Elements of Balancing. Friction of Journal and Bearings. Lubrication.

Stress and Strain. Characteristics of Materials. Shearing Forces. Bending Moments. Diagrams of Bending Moment and Shearing Force. Neutral Axis. Modulus of Section. Deflection of Beams. Long and Short Columns. Straight Line Formulæ. Torsion of Shafts. Polar Modulus for Circular Sections. Springs.

Laboratory Course.

Measurements of Efficiency and Mechanical Advantage of Simple Machines, such as Screw Press; Pulley Blocks; Differential Pulley Worm and Wheel; Geared Crane; Hydraulic Jack.

Measurement of Friction Coefficients. Energy of Flywheel. Deflection of Springs. Simple Tests of Materials in Tension. Compression, and Cross Breaking. Deflection of Beams.

Simple Hydraulic Measurements. Calibration of Gauges, Spring Balances, &c.

Text-book.

Mechanics Applied to Engineering: Goodman.

FOURTH YEAR.

(*a*) Heat Engines.
(*b*) Electrical Engineering.
(*c*) Machine Design and Drawing.

HEAT ENGINES.

A Course of Sixty Lectures and Eighty Hours' Laboratory Practice.

Lecture Course.

Short History of the Development of Heat Motors. Elementary Theory of Heat Engines. Laws of Thermodynamics. Cycle of Operations of the Working Substance in a Heat Engine. Laws of Permanent Gases. Work done by an Expanding Fluid. Adiabatic Expansion. Isothermal Expansion. Carnot's Cycle of Operations. Efficiency of Carnot's Cycle. Reversed Carnot's Cycle. Efficiency of a Perfect Heat Engine.

Properties of Steam. Elementary Theory of the Steam Engine. Rankine's Cycle. Indicators. Indicator Diagrams. Hypothetical Diagrams. Diagram Factor. Cylinder Condensation. Jacketing. Ratio of Expansion. Two and Three Stage Expansion. Combined Diagrams. Slide Valves and Valve Setting. Valve Diagrams (Zeuner, Wave Form). Reversing Gears. Expansion Valves.

Design of a Compound Steam Engine in Detail. Sizes of Cylinders for a given Indicated Horse Power. Crankshafts. Connecting Rods. Piston Rods. Pistons. Glands and Stuffing Boxes. Cylinders. Ports and Passages. Valves. Covers. Bed Plates and Framings. Bearings. Eccentrics, &c. The Steam Turbine. Impulse Types. Reaction Types. Flow of Fluid through Nozzles. Angles of Blades and Nozzles. Exhaust Turbines.

The Testing of Steam Engines and Boilers for Efficiency.

Fuels. Combustion. Boilers (fire and water tube). Leading Types and their Relative Suitability for Various Purposes. Transmission of Heat through Plates. Grate Surface. Heating Surface. Details of Construction. Riveted Joints. Stayed Surfaces. Stays. Furnaces. Chimneys. Fittings and Mountings. Board of Trade and Lloyd's Requirements. Maintenance and Operation.

Air Compressors. Cold-air Engines. Hot-air Engines.

Internal Combustion Engines. Cycles of Operations. Leading Types of Gas Engines. Suction Gas Plants. Producers. Oil Engines (for refined and crude oils). Petrol Engines. Power Ratings—Testing of Gas and Oil Engines for Efficiency.

Laboratory Course.

Drawing the Valve Diagrams and Setting the Valves of a Simple Engine with D and Piston Type Valve. Meyer Expansion Valve. Link Motions. Use of Indicator and Brakes. Tests of Steam and Gas Engines for Mechanical Efficiency.

Preliminary Tests for Evaporative Capacity of Boilers. Steam Consumption Tests of an Engine.

Text-books.

Heat Engines: D. A. Low.

Mechanical Engineering: Lineham.

Pocket-book of Marine Engineering Rules and Tables: Seaton and Rounthwaite.

Reference Books.

The Steam Engine and other Heat Engines: Ewing.

History of the Steam Engine: Thurston.

Steam Tables: Marks and Davis.

Steam Boilers: Parsons.

ELECTRICAL ENGINEERING.

Dynamos and Motors. Types. Magnet System. Armature. Excitation. Commutation. Commutating Poles. Applications of various Types. Alternators. Synchronous Motors. Rotary Converters. Transformers and Induction Motors.

Regulation and Starting. Starters and Controllers.

Distribution. Kelvin's Law. Mains and Branches. Losses. High-tension Mains. Insulators.

Generation. Power Stations. Choice of Plant. Switchboards, Hand-operated and Remote Control. Types of Indicating and Recording Instruments. Substations.

Lighting. Internal Lighting with Incandescent or Arc Lamps. External Lighting. Arc Lamps. Metal Filament Lamps. Vapour Lamps.

Wiring. House Wiring. Casing. Conduits. Regulations of Standards Association of Australia. Joints. Cutouts and Switches.

Laboratory Course.

Losses in Machines. Efficiency and Regulation. Switchboard operation. Paralleling and Synchronising.

Calibration of Instruments as Voltmeter, Ammeter, Wattmeter, and Watthour Meter.

Jointing of Wires and Cables.

Testing and Adjusting Arc Lamps.

Armature Winding and Former Making.

Text-book.

Electrical Engineering: Barr.

Faculty of Commerce—Degree of B. Com.

GROUP A.

Economics I. (*See* Course X.—Part I.)

Economics II. (*See* Course X.—Part II.)

Economics III. (*See* Course X.—Part III.)

Economic History. (*See* Course IX.)

Economic Geography. (*See* the Economic Geography section of Agricultural Economics I., Course LXI.)

XXXVII.—ACCOUNTANCY.

Mr. E. H. George, Mr. A. F. Hess, Mr. O. Tuttle, Mr. J. Packman, Mr. I. S. Webley.

The subject of Accountancy is divided into two sections, and candidates must, except in special circumstances, pass in Accountancy Section I. before proceeding with the study of Accountancy Section II.

The Courses of instruction in Accountancy Section I., groups (*a*) and (*b*), and Accountancy Section II., consist each of approximately 40 lectures. The work of each section is completed in one year.

The lectures consist of notes and demonstrations combined with practical examples for the students to work under the lecturer's supervision.

The following syllabus is to be considered as a whole, and is to be regarded as an indication of the intended scope of the required study and consequently of the examinations, and not as a literal and ordered statement of the work to be done.

Section I. (*a*).

The definition and objects of bookkeeping. The different groups of accounts and their purposes. The principles of double-entry bookkeeping. The relation of the journal to the ledger. The purchases book, sales book, and cash book. The returns inward and returns outward books. The trial balance. The nature of errors disclosed and not disclosed in the trial balance. The rectification of errors. Banks and banking. The tabular cash book with discount, cash, and bank columns. Provision for bad and doubtful debts. The method of recording depreciation, goodwill, bad debts, interest, cash and trade discounts, and suspense items. The difference between capital receipts and expenditure, and revenue receipts and expenditure. Stock-taking procedure. The closing entries at balancing date and the preparation of Trading, and Profit and Loss Accounts, and Final Balance-sheet. The order and method of stating assets and liabilities in the Final Balance-sheet. Bills of Exchange

and Promissory Notes. Method of keeping Bills Receivable and Bills Payable Books. Dishonoured and renewed bills. Retiring and discounting bills. Consignment and joint venture accounts.

Section I. (*b*).

Practical operations of a more difficult nature involving consignments, contract accounts, and joint ventures. Preparation of final accounts from single-entry records; general trading and manufacturing accounts, including elementary costing and percentage calculations; procedure incidental to the formation, maintenance, and winding-up of a partnership and a joint-stock company, and the recording of operations in respect thereto, embracing realisation and liquidation accounts; principles and practice of self-balancing ledgers; depreciations; reserves and reserve funds; receipts and payments, and income and expenditure accounts.

Note.—Generally, the work to be covered, under Section I. (*a*) and (*b*), embraces the method of keeping the acounts of a retail and wholesale merchant, a partnership, a general manufacturer, and a joint-stock company. The work in Section I. in respect of joint-stock companies will be of an elementary nature.

Section II.

Fuller treatment of the subject-matter of Section I. (*b*), and in addition, Statement of Affairs and Deficiency Accounts; Executorship Accounts; Company Accounts, including Increase and Reduction of Capital; Reconstructions, Absorptions, and Amalgamations; Departmental and Branch Accounts; Double Account System; Percentage Statements; Costing and Cost Accounts; Hire-purchase Accounts; Royalties and Short Workings; Sinking Funds; Insurance Accounts.

Books prescribed.

Student's Complete Bookkeeping: Arthur Fieldhouse.
Advanced Accounts: R. W. Carter (Australian Edition).
Australian Advanced Accountancy: A. E. Barton.

GROUP B.

English I. (*See* Appendix p. 207)
English II. (*See* Course IV.)
French I. (*See* Course V.)
French II. (*See* Course V.)
German I. (*See* Course VI.)
German II. (*See* Course VI.)
Philosophy I. (*See* Course XI.)
Philosophy II. (*See* Course XI.)
Philosophy IIA. (*See* Course XI.)

GROUP C.

XXXVIII.—AUDITING.

The Course consists of approximately 20 lectures, each of thirty minutes' duration, and is completed in one year.

Candidates must, except in special circumstances, satisfy requirements in the subject-matter of Accountancy Section I. before proceeding with the study of Auditing.

The lectures will deal with the principles and practice of Auditing—Nature and Objects—Qualifications and Rights of Auditors, and their Powers, Duties, and Responsibilities. Valuation and Verification of Assets—Special points in the audit of Company Accounts and the Accounts of Partnerships—Investigations.

Books prescribed.

The Principles and Practice of Auditing: De Paula.

Practical Auditing: Spicer and Pegler.

XXXIX.—COMMERCIAL AND INDUSTRIAL ORGANIZATION.

The Course of lectures in Commercial and Industrial Organization is divided into two parts. The first part deals with Business Practice and Procedure, and the second part with Organization and Management.

Candidates must, except in special circumstances, satisfy requirements in the subject-matter of the First Part, before proceeding with the study of the Second Part of the Course.

The complete Course consists of approximately 40 lectures, each of one hour's duration, and the Course is completed in one year.

The following syllabus may be regarded as an indication of the intended scope of the course.

Part I.—Business Practice.

Conditions governing the purchase and sale of goods. Forms and documents used in connection with purchases and sales. Banks and their functions. Cheques. Bills of Exchange. Promissory Notes. Forms and documents used in connection with the receipt and payment of money. Commercial relations between persons. Sole Traders. Partnerships. Companies.

Part II.—Organization and Management.

General review of requirements and main features to be introduced when planning an ideal organization.

Detailed review of the principles and basic factors essential to efficient management and control, including—

The nature and constitution of Business Houses. The financing of a new business. The organization of control and responsibility. The organization of credit—Cash and credit trading—Machinery of payment. The remuneration of employees and workmen. Co-operation and Profit-sharing.

Books prescribed.

Australian Business Principles: Collins, McLaren, Maxwell, and Fenton.

Pitman's New Course in Business Principles: Claude E. Brown.

Book for reference and further reading.

The Principles and Practice of Commerce: Stephenson.

XL.—BANKRUPTCY LAW.

Mr. A. J. Mansfield and Mr. J. D. C. Story.

The Course consists of approximately 40 lectures, each of one hour's duration, and is completed in one year.

Candidates must, except in special circumstances, satisfy requirements in Accountancy Section I. before proceeding with the study of Bankruptcy Law.

The lectures will deal with the General Principles and Practice governing operations under the the Bankruptcy Act, 1924-1932, and the Rules and Regulations thereunder, with special reference to persons subject to the Act—Debts provable—Modes of Sequestration and procedure—Management, Collection and Distribution of assets—Duties and Powers of Trustees—Discharge of Bankrupt—Compositions—Deeds of Assignment—Schemes of Arrangement.

Book prescribed.

Australian Bankruptcy Law and Practice: McDonald, Henry and Meek.

Books for reference and further reading.

Federal Bankruptcy Law and Practice: Robertson and Tait.

Bankruptcy Law: Lewis.

XLI.—COMPANY LAW.

Mr. A. J. Mansfield and Mr. J. D. C. Story.

The Course consists of approximately 40 lectures, each of one hours' duration, and is completed in one year.

Candidates must, except in special circumstances, satisfy requirements in Accountancy Section I. before proceeding with the study of Company Law.

The lectures will deal with the general principles and practice governing operations under "*The Companies Act of* 1931," "*The Life Assurance Companies Act of* 1901," and "*The Insurance Act of* 1916," with special reference to—Constitution—Registration and Incorporation—Management and Administration—Duties and Powers of Liquidators—Compulsory and Voluntary Winding-up.

Book prescribed.

Company Law: Topham—Student's Edition.

XLII.—MERCANTILE LAW.

Mr. A. J. Mansfield.

The Course consists of 40 lectures, each of one hour's duration, and is completed in one year.

The lectures will deal with the following subject-matter:—

Negotiable Instruments.

Law of Contract; Principal and Agent; Law of Partnership; Bills of Sale; Liens; Registration of Firms; Hire-purchase Agreements; Insurance—Life, Fire, Marine; Workers' Compensation Act; Landlord and Tenant; Sale of Goods Act; Stamp Duties Act; Contracts of Affreightment; Law Relating to Common Carriers; Arbitration and Awards; Bailments.

Students should have access to and use the following books:—

Law of Contracts: Anson.

Australian Steven's Mercantile Law: Rydge.

Sale of Goods Act: Chalmers.

Bills of Exchange Act: Russell and Edwards.

Australian Manual of Accountancy and Commercial Law: Morley, Tait and Dalby.

Hire Purchase: Dean.

In addition, the following Statutes should be referred to:—

Partnership Act, 1891.
Sale of Goods Act, 1896.
Bills of Exchange Act, 1909.
Mercantile Acts, 1867 *to* 1896.
Bills of Sale Acts, 1891 *to* 1896.
Statute of Frauds and Limitations, 1867.
Auctioneers and Commission Agents Acts, 1922 *to* 1924.
Sea Carriage of Goods Act, 1924.
Marine Insurance Act, 1909.
Merchant Shipping Acts, 1894 *to* 1916.
Summary Ejectment Act, 1867.
Money-lenders Act, 1916.
Contractors' and Workmen's Lien Acts, 1906 *to* 1921.
Factors Act, 1892.
Gaming Act, 1850.
Interdict Act, 1867.
Stamp Acts, 1894 *to* 1930.
Married Women's Property Acts, 1890 *to* 1897.
Secret Commissions Act, 1905.
Distress, Replevin, and Ejectment Act, 1867.
Registration of Firms Acts, 1902 *to* 1912.

XLIII.—LAW OF TRUSTEES.

The Course consists of approximately 40 lectures, each of one hour's duration, and is completed in one year.

Candidates must, except in special circumstances, satisfy requirements in Accountancy Section I. before proceeding with the study of the Law of Trustees.

The lectures will deal with the following:—

Law relating to Wills and Trusts and to Grants of Probate and Letters of Administration—Distribution in Intestacy—Appointment, Retirement, Discharge, and Powers, Duties, Rights and Liabilities of Executors, Administrators, and Trustees—Appointment of Receivers—Powers under Public Curator Act, 1915, and Trustees and Executors Acts, 1897 to 1924; Guardianship and Custody of Infants.

The following Statutes should be referred to:—

Trustees and Executors Acts, 1897 *to* 1924.
Public Curator Acts, 1915 *to* 1926.
Trust Accounts Act, 1923.
Guardianship and Custody of Infants Act, 1891 *to* 1928.
Queensland Trustees Limited Acts, 1888 *to* 1932.
Union Trustee Company of Australia Limited Acts, 1890 *to* 1930.
Testator's Family Maintenance Act, 1914.
Intestacy Act, 1877.
Succession Acts, 1867 *to* 1895.
Probate Act, 1867.
Common Law Probate Act, 1857.
Settled Land Act, 1886.

XLIV.—TAXATION LAW AND PRACTICE.

Mr. C. G. McCorkell.

The Course consists of approximately 40 lectures, each of two hours' duration, and is completed in one year.

Candidates must, except in special circumstances, satisfy requirements in Accountancy Section I. before proceeding with the study of Taxation Law and Practice.

The lectures consist of notes and demonstrations combined with practical examples for the students to work under the lecturer's supervision.

The lectures will deal with the following:—

The Powers of the State and the Commonwealth Governments with regard to Taxation. The Basic Principles of the Income Tax Acts. The Construction of the Income Tax Acts. Liability to

Income Taxation. Rates of Income Taxation. Returns and Assessments. Objections and Appeals. The Collection of Income Tax. Appeal Provisions and Legal Proceedings as laid down by the Income Tax Acts. Miscellaneous Provisions of the Income Tax Acts. Income Tax Cases

Statutes—

The Income Tax Acts (Queensland), 1924 to 1932, and any Amendments thereof.

The Income Tax Assessment Acts (Commonwealth of Australia), 1922-1932, and any Amendments thereof.

The Income Tax Acts (Commonwealth of Australia).

The Regulations under the above Acts.

GROUP D.

Public International Law. (*See* Course XVI.)

Constitutional History and Political Science I. (*See* Course VIII.)

Modern Political Institutions and Theory. (*See* Course VIII.)

Pure Mathematics I. (*See* Course XII.)

Pure Mathematics II. (*See* Course XII.)

Statistical and Actuarial Mathematics. (*See* Course XIV.)

GROUP E.

Chemistry I. (*See* Course XXIII.)

Chemistry II. (*See* Course XXIII.)

Physics I. (*See* Course XXV.)

Physics II. (*See* Course XXV.)

Biology I. (*See* Courses XXI. and XXII.)

Geology I. (*See* Course XXIV.)

AGRICULTURE—PART I.; PART II.

Principles of Agriculture I. (*See* Course L.)

Principles of Agriculture II. (*See* Course LV.)

Principles of Fruit Culture. (*See* Course LIX.)

Agricultural Botany. (*See* Course LII.)

Zootechny. (*See* Course LIII.)

Agriculture may not be taken until a pass has been obtained in Biology I.

Faculty of Agriculture—Degree of B.Sc. Agr.

FIRST YEAR.

BIOLOGY I.

As for Science Students. (*See* Courses XXI. and XXII.)

CHEMISTRY I.

As for Science Students. (*See* Course XXIII.)

GEOLOGY AND MINERALOGY I.

As for Science Students. (*See* Course XXIV.)

PHYSICS I.

As for Science Students. (*See* Course XXV.)

XLV. TECHNICAL DRAWING.

Mr. Munro.

Construction of scales, regular and irregular polygons, methods of constructing ellipses, cycloidal curves and involutes. Practical application of these curves. Helices and their applications—*e.g.*, screws, springs, bolts, &c.

Orthographic Projection—

(*a*) Primary planes, dihedral angles, projection of plane elevation and end view.

(*b*) Inclined planes and projection of inclined surfaces on to the horizontal and vertical planes.

(*c*) Oblique planes and problems relating thereto—*e.g.*, determining traces, angles, and true areas. Projection of oblique surfaces on to the horizontal and vertical planes.

(*d*) Dimensioned drawings of machine details, &c.

Development of surfaces of geometrical solids.

Conic sections and interpenetration of cylinders, cones, &c., with practical applications in development, such as the shape of sheets required for troughs, milk cans, &c.

Isometric Projection.—Principles and method of making drawings of outlines of buildings and engineering details.

Oblique Parallel Projection.—Principles and method of making drawings of outlines of buildings and engineering details.

Perspective Drawing.—Principles and method of making drawings of outlines of buildings and engineering details.

Handsketching in Orthographic, Isometric, Oblique Parallel and Perspective of engineering fastenings and simple machine parts.

Text-book.

Introduction to Engineering Drawing: Duncan.

PURE MATHEMATICS I.

As prescribed for Science Students selecting Group (*a*). (*See* Calendar, Part I., p. 56.)

Vacation Work.

Students who have completed their first year within the Faculty of Agriculture shall undertake training in Practical Agriculture at the Queensland Agricultural High School and College during the Long Vacation, except in the case of those students who have already obtained the Diploma of the College. The Diploma-holders will be required to spend the Long Vacation on farms approved by the Faculty.

SECOND YEAR.

XLVI. ECONOMIC ENTOMOLOGY.

Mr. Perkins.

A course comprising:—

First Term.—Twenty lectures on the External and Internal Anatomy, Physiology, and Development and Metamorphosis of Insects.

Second Term.—Twenty lectures on the Classification, Geographical Distribution, and Habits of the Insecta, with special reference to Bionomics and control of species of economic importance in Australia.

Third Term.—Twenty lectures on the Principles of Insect Control. Practical classes are devoted to the study of Internal and External Anatomy, and Classification of Insects, species of economic importance being used as types wherever possible.

Each student is expected to work out the life-cycle of at least three species of economic importance.

A general collection of at least 300 classified species is to be handed in at the end of the year.

Text-books.

Insects of Australia: Tillyard.

Introduction to Entomology: Comstock.

Problems of Applied Entomology: Wardle.

The Principles of Scientific Plant Protection: Martin.

Text-book of Entomology: Imms.

XLVII. AGRICULTURAL CHEMISTRY I.

Mr. Hines.

A course involving two Lectures and six hours' practical work per week during the three terms.

Lectures.—Thirty lectures on Organic Chemistry with special reference to naturally occurring substances.

Thirty lectures on Physical Chemistry dealing with the gas laws, theory of solutions, law of mass action, buffer action, galvanic cells and pH measurement, adsorption and the colloid state, reaction velocity, catalysis and enzyme action.

Practical Work: Elementary quantitative analysis, physico-chemical measurements, and experimental organic chemistry.

Text-books.

Class-book of Physical Chemistry: Lowry and Sugden.

Text-book of Organic Chemistry: Read; or

Organic Chemistry: Kipping and Kipping.

XLVIII. AGRICULTURAL GEOLOGY.

Dr. Bryan.

Lectures: A course of sixty Lectures on Crystallography, Mineralogy, Petrology, Rock-Weathering, Ground Water, Soils and Soil Surveys, Natural Mineral Fertilisers.

Laboratory Practice: At least four hours per week in the study of Crystals, Minerals, Rocks, and Soils, both microscopically and megascopically.

Field Work: As prescribed.

BOTANY II.

Professor Goddard, Mr. Cayzer, and Dr. Herbert.

Selected portions of Botany II. as prescribed for Science Students, involving two Lectures and six hours' practical work per week. (*See* Course XXI.)

Vacation Work.

Students who have completed the second or the third year within the Faculty of Agriculture will be required to devote one Long Vacation to specialised work and one Long Vacation to work on an approved farm, it being understood that as far as practicable the specialised work will be combined with practical work on the farm or farms selected.

XLIX. PLANT PATHOLOGY.

Dr. Herbert.

A course of sixty Lectures and 120 hours' practical work during the three terms. Physiological diseases; virus diseases; nematodes; cryptogamic and phanærogamic parasites. Ecology and control of plant disease. Practical work includes laboratory and field examination of the diseases of weeds and of native and cultivated plants.

Text-book.

A Manual of Plant Diseases: Heald.

THIRD YEAR.

(*At Queensland Agricultural College.*)

L. PRINCIPLES OF AGRICULTURE I.

Professor Murray.

Sixty Lectures.

Land and Soils.

Land.—Queensland methods of land settlement for agricultural and pastoral purposes.

Statistics of Australian and Queensland Agricultural crops and pastoral industries. (*See also* Agricultural Economics.)

Factors determining the value of land for agricultural and pastoral purposes.

Rainfall.—Summer incidence. High rate of evaporation from Queensland soils. Comparison of North European and the Australian winter rainfall zone with Queensland conditions. Conservation of soil moisture; fallowing in districts of low rainfalls.

Soils.—Suitability for crops. (*See also* Agricultural Geology, Chemistry, and Bacteriology.)

Fertility of Soils.—Plant food materials; availability, deficiencies. Substances injurious to plants.

Manures and Fertilisers.—Phosphoric, potassic, and nitrogenous; liming; soil micro-organisms. (*See also* Agricultural Bacteriology.)

Cultivation, Planting, and Harvesting.—Implements; their use. area covered, and power required. Horses and tractors as motive power.

Drainage.—General principles; restricted application in Australian agriculture; irrigation practice.

Irrigation.—General principles and methods. The Dawson Valley and Burdekin schemes; small unit plants; irrigation schemes in other countries and States. (*See also* Horticulture Notes.)

Visits to the Queensland Agricultural College and to places of special interest in connection with the course will be made during the year.

References.—Queensland Crown Land Directory and publications of the Lands Department.

Annual Report of the Department of Agriculture and Stock.

Annual Report of the Prickly-pear Commission.

Reference Books.

The Soil: Hall.

Soils: Hilgard.

Dry Farming: Widstoe.

Irrigation and Drainage: King.

The Queensland Agricultural Journal.

LI. GENETICS AND PLANT BREEDING.

Mr. W. W. Bryan.

A course consisting of thirty Lectures and twenty two-hour demonstrations on the principles of Genetics and Plant Breeding, including such subjects as relationship of Genetics to other biological sciences; work of Mendel, Mendel's laws, Mendelian terms; inheritance in monohybrids, dihybrids, trihybrids, etc.; early plant hybridisers; physical basis of heredity, various theories; interaction of factors; reversion; sex inheritance and sex determination; linkage; chromosome maps; calculations; quantitative inheritance and multiple factors; pure-line theory; inbreeding and outbreeding; non-Mendelian inheritance; mutations and the mutation theory; evolution; eugenics.

Plant improvement with reference to development of the organism; heredity and environment; variation; composition of plant populations; introduction; mass selection and pedigree selection; hybridisation followed by selection; technique of hybridisation; bud selection; clonal lines; plans; records and notes; details of methods of improvement for different types of plants.

A short course in biometrics, plot technique and experimental error.

Demonstrations will consist of work illustrating the matter dealt with in lectures.

Text-books.

Breeding Crop Plants: Hayes and Garber.

Genetics in relation to Agriculture: Babcock and Clausen.

LII. AGRICULTURAL BOTANY.

Mr. W. W. Bryan.

A course consisting of thirty Lectures and fifteen two-hour demonstrations, illustrated by specimens, diagrams, and slides on:—

Seeds and seed testing.

The Botany of crop plants of the Gramineæ, Bromeliaceæ, Liliaceæ, Musaceæ, Cannaceæ, Rubiaceæ, Anonaceæ, Saxifragaceæ, Rosaceæ, Linaceæ, Leguminosæ, Rutaceæ, Euphorbiaceæ, Vitaceæ, Malvaceæ, Anacardiaceæ, Passifloraceæ, Caricaceæ, Umbelliferæ, Oleaceæ, Convolvulaceæ, Solanaceæ, Cucurbitaceæ, Compositæ.

Grasses and fodder plants—identification and value; pasture work.

Poison plants and stock-killing plants—identification; effects; methods of control.

Weeds—identification, control, and classification.

Demonstrations will consist of work illustrating the matter dealt with in the lectures.

Students will be required to make a collection of grasses, fodder plants, weeds, and detrimental plants, classify and write notes on the economic importance of each.

Text-book.

Botany of Crop Plants: Robbins.

LIII. ZOOTECHNY.

Mr. McKenzie.

Theory and Practice.

Breeds of sheep, cattle, pigs. and horses. Principles of horse-shoeing. The management and care of farm animals. The feeding of farm animals.

LIV. AILMENTS OF LIVE STOCK.

Mr. McKenzie.

Theory and Practice.

Anatomy and physiology of farm animals. Common diseases of farm animals; the prevention and treatment of diseases.

Vacation Work.

Students who have completed the second or the third year within the Faculty of Agriculture will be required to devote one Long Vacation to specialised work and one Long Vacation to work on an approved farm, it being understood that, as far as practicable, the specialised work will be combined with practical work on the farm or farms selected.

LV. PRINCIPLES OF AGRICULTURE II.

Professor Murray.

Crops—Growth and harvesting of Queensland crops. Possibilities of extension of present crop areas; local development of crops, the products of which are now largely imported.

Pastures.—Native, temporary, and permanent pastures. The Hohenheimer and other systems of pasture management; cultivation; top dressing; stocking; drainage.

Establishment of permanent pastures. See also Agricultural Botany notes.

Droughts and Seasonal Shortages.—General measures for a reasonable safeguarding of the State against drought losses. Conservation of fodder and grains; ensilage.

Methods to be employed in agricultural and pastoral field experiments.

LVI.—DAIRYING.

Mr. R. R. Keats.

Production: See Zootechny.

DAIRY MANUFACTURES.

Cream Grading and Buttermaking.

The grading of cream. Common faults of cream, their causes and prevention.

Neutralisation of cream, pasteurisation of cream, starters. Buttermaking: Control of moisture, butter boxes, common faults of butter, butter grading, scoring, and judging, the Dairy Produce Act, the Commerce Act.

Text-book.

The Butter Industry: O. F. Hunziker.

Cheesemaking.

Milk for cheesemaking, starters, colouring, rennet, the principles of cheesemaking, control of fermentation, cutting, cooking, pitching, wheying off, cheddaring, and milling of curd; salting, hooping, and pressing; ripening and storing, estimating the yield, the manufacture of Cheddar cheese from pasteurised milk, the composition of Cheddar cheese, defects in cheese, judging and grading, other types of cheese.

Text-book.

Science and Practice of Cheesemaking: Van Slyke.

Dairy Technology.

Condensed milk, sweetened and unsweetened. Manufacture.

Faults of sweetened and unsweetened condensed milk.

Plain condensed bulk milk and concentrated milk.

Milk powder—Merrell-Soule, Campbell, Buflovak, Eckenberg, and Just-Hatmaker processes. Dried buttermilk.

Malted milk.

Ice-cream. Manufacture.

LVII. AGRICULTURAL BACTERIOLOGY.

Professor Murray.

Micro-organisms.

Soil Microbiology.

Micro-organisms in water; septic tanks; farm hygiene.

Micro-organisms in their relationship to bread-making.

Micro-organisms in their relationship to milk.

Normal changes in milk and cream; abnormal fermentations; market milks; milk as a carrier of disease organisms; bacteriological milk standards.

Bacteria, yeasts and moulds in their relationship to butter, cheese, ice-cream, sweetened and unsweetened condensed milk, evaporated and powdered milks.

Preservation of human and animal foods; microbial food-poisoning.

Manufacture of industrial alcohol, spirits, wines, beers, vinegar, citric acid, and leather.

Vaccines and anti-sera.

Text-book.

Microbiology: Marshall.

The following books may be used for reference.

Bacteria and Soil Fertility: Greaves.
The Micro-organisms of the Soil: Russell.
Dairy Bacteriology: Orla-Jensen.
Dairy Bacteriology: Hammer.
Biological Abstracts.

LVIII. FARM BOOK-KEEPING.

Mr. Woodward.

General book-keeping methods.
Methods of keeping farm and station accounts.
Farm costing systems.

LIX. PRINCIPLES OF FRUIT CULTURE.

Mr. Howie.

Selection of land for horticultural purposes.
Orchard, vineyard, and garden soils.
Laying out and planting of orchards and gardens.
Selection of varieties; development of varieties.
Propagation of plants; seeds, seedlings, cuttings, propagation from leaves and roots, budding, grafting.
Pruning; objects; methods.
Use of manures and fertilisers in the orchard and garden.
Vegetable and flower gardens.
Irrigation in horticulture.

LX. AGRICULTURAL ENGINEERING.

Mr. Barratt.

Farm Roads.—Construction and maintenance.

Pumps.—Single and double action; centrifugal; capacity, maintenance and uses of each type in agriculture and dairying.

Windmills.—Capacity and maintenance.

Steam Boilers and Engines.—Operation and uses in agriculture and dairying.

Internal Combustion Engines.—Four-stroke cycle; two-stroke cycle; crude oil engines; suction gas operation.

Tractors.—Essential features for successful operation under farming conditions; capacity of different ratings and types; timing of ignition; timing of valves; adjusting of bearings; fuels and lubrication; dynamometer tests with farm machinery; general care and maintenance.

Refrigeration.—General principles; the ammonia system in detail; care and management of refrigerating machinery; operation of College plant; capacity of plants.

Care and management of small electrical units.

Practical work with College boilers, steam engines, stationary internal combustion engines and tractors.

FOURTH YEAR.

LXI. AGRICULTURAL ECONOMICS I.

Professor Alcock and Mr. Molesworth.

(Agricultural Economics II. is not at present offered.)

Two sections of about thirty lectures each.

Books prescribed.

Section I. Theory.

Agricultural Economics; George O'Brien; or
Outlines of Agricultural Economics: H. C. Taylor.

Section II., Geography—

An Atlas of Economic Geography (large Edition—text and maps): Bartholomew and Lyde.
Economic Geography: Macfarlane.
Social and Economic Geography: Brettle.
Australia, Physiographic and Economic: Taylor.
An Economic Survey of Australia, Parts I. and II. (Annals of the American Academy of Political and Social Science, November, 1931): Copland.

For reference and further reading.

Handbook of Commercial Geography: Chisholm.
Industrial and Commercial Geography: J. Russell Smith.
The Latest Commonwealth Year Book.

LXII. AGRICULTURAL CHEMISTRY II.

Mr. Hines.

A Course involving two Lectures and six hours' practical work per week during the three terms.

Lectures.—The elements of animal and plant biochemistry and the science of nutrition. The study of soils and of the chemistry of crop production.

Practical Work.—Laboratory exercises on soils, milk and dairy produce, feeding stuffs, insecticides and fungicides, fertilizers and manures. The nature of the work can be adjusted to suit the needs of individual students and of the subjects selected by them for special study. Students are expected to make full use of the departmental library and to become familiar with the more important periodical literature therein.

LXIII. BOTANY III.

Mr. Cayzer and Dr. Herbert.

Selected portions of Botany III. as prescribed for Science Students, involving three Lectures and eight hours' practical work per week during First and Second Terms. (*See* Course XXII.)

LXIV. METEOROLOGY.

Mr. Rimmer.

A course of about thirty Lectures on Meteorology with special reference to Agriculture, as follows:—

PART I.

Two Lectures per week during the First Term.

The Physics of the Atmosphere, and elementary principles of Dynamical Meteorology, with a study of the variation and distribution of the meteorological elements—insolation, temperature, pressure, water-vapour, etc., and the laws governing the general circulation of the atmosphere, leading up to (*a*) Weather and Weather-sequence, with particular reference to Australian Weather; and (*b*) a general classification of climates based on the above distribution.

Special consideration will be given to problems of soil-temperatures, humidity, evaporation, etc., in relation to plant-life.

Text-books.

Climate and Weather: Hunt.
Australian Meteorology: Taylor.
Meteorology: Brunt.

PART II.

One Lecture per week during the Second and Third Terms.

(*a*) Comparative Climatology with special reference to semi-arid and sub-tropical climates similar to Australian types.

(*b*) Weather and Crops. Climate Limits. Bio-climatic Laws. Influence of weather on growth and yield, as determined by correlation coefficients.

Text-book.

The Climates of the Continents: Kendrew.

LXV. PRINCIPLES OF AGRICULTURE III.

Professor Murray.

(During First Term.)

Farm Costing.—Costs of farm operations; costs of production. Methods of increasing efficiency in agricultural and pastoral industries.

Agricultural Education.—Research, education, and extension activities in Agriculture.

LXVI. VETERINARY PARASITOLOGY.

Professor Goddard and Mr. Perkins.

A course of Lectures and demonstrations, involving three hours per week during the First and Second Terms.

Parasites and parasitism; classification of internal and external parasites; relation of parasitism to symbiosis; origin of parasitism.

Protozoan parasites affecting domestic animals and man. Metazoan parasites. A systematic account of the anatomy and the life history of the flatworms (Trematoda and Cestoda), the round worms (Nematoda and Acanthocephala), and the Arthropod parasites (ticks, mites, flies, &c.); their pathological effects on the domesticated animals.

Text-book.

Parasites and Parasitosis of Domestic Animals: Underhill.

SPECIAL SUBJECT.

During the Fourth Year part of the time of the Student will be devoted to a Special Subject selected by the individual Student and approved by the Faculty, such as Entomology, Plant Pathology, Agricultural Chemistry, Agricultural Bacteriology, Plant Breeding, Agriculture, &c.

Faculty of Dentistry—Degree of B.D.Sc.

First Year.

BIOLOGY I.

As for Science Students (excluding Botany I.). (See Courses XXI. and XXII.).

CHEMISTRY I.

As for Science Students. (See Course XXIII.).

PHYSICS I.

As for Science Students. (See Course XXV.).

LXVII. HUMAN ANATOMY.

Part I.

Dr. E. S. Meyers.

A course of 48 lectures and 90 hours' dissections, covering anatomy of the head and neck, and a brief résumé of general anatomy.

Text-book.

Cunningham: Text-book of Anatomy.

LXVIII. PROSTHETIC DENTISTRY.

PART I.

Lecturer: Mr. A. J. Hoole.

Demonstrator: Mr. P. Pohlman.

A series of three introductory lectures in Prosthesis, with 360 hours' practical work in the laboratory.

Each student will be expected to complete a set amount of practical work to the satisfaction of the lecturer.

Text-book.

Turner and Anthony: Text-book of Prosthetic Dentistry.

LXIX. COMPARATIVE DENTAL ANATOMY.

PART I.

Dr. H. Goldfinch.

Five lectures in third term on Introductory Dental Anatomy.

Text-book.

Widdowson: Text-book of Dental Anatomy.

SECOND YEAR.

LXX. HUMAN ANATOMY.

PART II.

Dr. E. S. Meyers.

Further lectures and demonstrations in Anatomy—

(*a*) A detailed study of the lymphatic system of the head and neck.

(*b*) A detailed study of the cranial nerves and spinal nerves.

(*c*) A study of applied anatomy.

(*d*) The anatomy of the living.

(*e*) Dissections of the head, neck and thorax.

(*f*) Demonstrations upon the prepared specimens in the Museum of the Anatomy School.

LXXI. COMPARATIVE DENTAL ANATOMY.

PART II.

Dr. H. Goldfinch.

Lectures covering Embryology in reference to tooth formation; the development of the teeth and their formation; the functions of the teeth, their minute histology, composition and calcification. Consideration of the gums, periodontal membrane and bone; the anatomy of the mandible and maxilla and development of the jaws;

innervation, nutrition, blood supply and lymphatic systems of the teeth.

Practical classes:—Carving enlarged models, and sectioning of teeth and their microscopic examination.

LXXII. METALLURGY.

Mr. S. B. Watkins.

Fifteen lectures and demonstrations, comprising a general outline of the physical and chemical properties of the metals, alloys, and the effect of alloying upon the characteristics; metallurgical apparatus; the preparation of metals from their ores; production of alloys; uniting and working metals; annealing, hardening, and similar treatments. A detailed study of the metals used in dentistry, and a brief consideration of other metals.

Practical demonstrations include metal testing, soldering, fusion, preparation of alloys and amalgams.

LXXIII. MATERIA MEDICA.

Mr. F. C. Bennett.

Fifteen lectures on Materia Medica, Pharmacology and Therapeutics. Properties, uses and prescription of drugs. An elementary study of the Pharmacology of—Anaesthetics (local and general), depressants (sedatives and hypnotics), analgesics, antipyretics, stimulants, antacids, styptics and thermostatics, caustics, antiseptics and disinfectants.

LXXIV. PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

Mr. Cayzer, Mr. Hines.

A course of 140 lectures and laboratory practice, which includes consideration of—The simple tissues (including the structure and functions of protoplasm). Mitosis. Structure of blood vessels. The skin and its appendages, and functions of the skin. The ductless glands and their physiology. Structure of the alimentary canal and of the digestive glands. Structure of the kidneys—sources of loss and gain to the body. Structure of the larynx, trachea, lungs—respiration. The circulatory system. Sensations and sensory organs. The nervous system and innervation. The chemistry of foodstuffs and of the more important tissues of the body. Digestion and absorption. The blood and respiration. Coagulation of the blood. Metabolism of carbon and nitrogen. Intermediate metabolism. The function of inorganic constituents and of vitamins. The planning of the diet.

The laboratory work includes—

(1) Studies on the histology of the tissues and organs of the body, including the blood.

(2) Biochemistry—Hydrogen ion concentration. Enzymes. The reactions of proteins, carbohydrates and fats. The

digestive enzymes and their functions. Examination of typical foodstuffs. Qualitative and quantative examination of blood and urine. Analysis of a tooth.

(3) Histological and microscopic technique.

Text-books.

Cameron: A Text-book of Biochemistry.

Cameron and White: Practical Biochemistry.

Halliburton: Text-book of Physiology.

LXXV. PROSTHETIC DENTISTRY.

PART II.

Lecturer: Mr. A. J. Hoole.

Demonstrator: Mr. P. Pohlman.

A course of 360 hours' lectures and demonstrations in prothesis, with laboratory work to be completed to the satisfaction of the lecturer.

Practical work includes further exercises in impression-taking and casting of models, zinc dies, counter dies, swaging of metal plates, soldering exercises, casting of dentures, and preparation of full upper and lower dentures.

Text-book.

Turner and Anthony: Text-book of Prosthetic Dentistry.

LXXVI. OPERATIVE DENTAL SURGERY.

PART I.

Mr. A. Rossiter.

A course of 120 hours' lectures and practical work in the laboratory on the preparation and filling of cavities in teeth; properties and uses of filling materials; cavity classification.

Practical work to consist of cavity preparation and fillings in extracted teeth, to be completed to the satisfaction of the lecturer.

Text-book.

McGehee: Text-book of Operative Dentistry.

Reference—Ward: Text-book of Operative Dentistry.

THIRD YEAR.

LXXVII. BACTERIOLOGY AND PATHOLOGY.

Dr. J. V. Duhig.

A course of 25 lecture-demonstrations in General Pathology and Bacteriology covering—Elementary Cytology; histology of fixed cells and tissue cultures; physiology and chemistry of the cell in health; cell changes in disease; degenerations and infiltrations;

necrosis; gangrene and pigmentary changes of oral tissues; detailed consideration of the histology of inflammation, suppuration and repair; the application of above to surgical practice; the anaemias and leukaemias; new growths, benign and malignant; the pathology and histology of chronic infective granulomata; discussion of oral syphilis. History of bacteriology; biochemistry of bacteria; detailed discussion of technical methods; slide preparation; microscopy; and systematic identification.

Practical work in histological and bacteriological technique.

LXXVIII. SPECIAL DENTAL PATHOLOGY.

Dr. N. M. Gutteridge.

A course of 20 lectures on anatomy and physiology of the gums; oral bacteriology; diseases of the enamel; gingivitis; alveolar abscess; periodontal disease; diseases arising from mouth affections; locomotor system; ulceration of the gums; tumours of the gums and jaws; special diseases of the mouth and gums; diseases with oral symptoms; diseases of the skin; poisons and drugs affecting the mouth; the science of nutrition; neuralgia of mouth; neuroses; methods of diagnosis; vaccine therapy.

LXXIX. MEDICINE.

Dr. Eustace Russell.

Lectures and bedside demonstrations covering the fundamentals of medicine and their application to dental surgery—the febrile state; fevers; vaccination; immunity; specific fevers; diseases of nutrition; diseases of the alimentary tract; diseases of the circulatory system and respiratory apparatus; diseases of the blood; focal infection; co-operation between the professions of Medicine and Dental Science.

LXXX. ORTHODONTIA.

PART I.

Dr. B. L. Rosenstengel.

Introductory lectures in Orthodontia. A consideration of the classification of dental and oral deformity; nomenclature; normal articulation; diagnosis and principles of treatment; principles of the construction of appliances for correcting simple irregularity.

Text-book.

Angle: Malocclusion of the Teeth (7th edition).

Reference—Dewey: Practical Orthodontia.

Case: Dental Orthopædia and Correction of Cleft Palate.

LXXXI. OPERATIVE DENTAL SURGERY.

PART II.

Professor Helmore.

A course of lectures and demonstrations on the practical application of operative technique; asepsis; exclusion of moisture from the operating field; filling materials—their properties and indications for their use; root canal therapy; separation of teeth; matrices and their practical uses. Leading to practical operative dentistry at the Dental Hospital.

Text-book.

McGehee: Operative Dentistry.

LXXXII. ANAESTHETICS.

Dr. Ellis Murphy.

A series of lectures on general anæsthetics, their physiological action and properties; methods of administration; indications for and against; application to dental operations. Practical demonstrations will be arranged.

LXXXIII. SPECIAL DENTAL MATERIA MEDICA.

Mr. A. Rossiter.

Ten lectures on the drugs used in dental practice, their properties and methods of application.

LXXXIV. GENERAL SURGERY.

Dr. A. G. Anderson.

Consideration of the surgical importance of—Surgical bacteriology. Inflammation. Suppuration: ulceration, gangrene. Infectious diseases. Tumours and cysts. Hæmorrhage: wounds, injuries to blood vessels. Fractures and dislocations. Diseases of bone. Diseases of lymphatics. Diseases of nerves. Affections of the lips and jaws: mouth and gums. The pre-cancerous states. Tumours of the jaws. Affections of the salivary glands, palate, tonsils, larynx. Affections of the temporo-maxillary joint. Affectations of the neck.

Clinical demonstrations at the Brisbane Hospital.

LXXXV. PROSTHETIC DENTISTRY.

PART III.

Lecturer: Mr. A. J. Hoole.

Demonstrator: Mr. P. Pohlman.

Lectures and demonstrations in more advanced prosthesis, metal dentures, backing and soldering, tube teeth technique, gum section teeth, preliminary crown and bridge work.

One hundred and twenty hours' practical work in the laboratory to be completed to the satisfaction of the lecturer.

FOURTH YEAR.

LXXXVI. OPERATIVE DENTAL SURGERY.

PART III.

Professor Helmore.

Practical operative dentistry at the Dental Hospital, with occasional lectures and demonstrations as required.

LXXXVII. PROSTHETIC DENTISTRY.

PART IV.

(Including Crown and Bridge Work, and Ceramics.)

Dr. R. P. Rheuben.

Lectures and demonstrations on the advanced stages of prosthesis. Crown and bridge work methods, indications, and practical cases. Ceramics.

LXXXVIII. ORAL SURGERY AND RADIOGRAPHY.

Professor Helmore, Dr. R. P. Rheuben, and Mr. A. J. Hoole.

Lectures on the technique and application of surgical methods to the mouth; instruments and their employment; asepsis; premedication, and post-operative treatment. Radiographic methods and interpretation.

Practical: Extraction of teeth, surgical removal of teeth, removal of cysts, unerupted teeth, resection of apices of teeth, soft-tissue surgery, treatment of fractures of the mandible.

LXXXIX. PREVENTIVE DENTISTRY.

Mr. A. J. Hoole.

Eight lectures on Preventive Dentistry, covering oral hygiene, dietetics, and public education.

XC. PERIODONTOLOGY.

Professor Helmore.

Lectures on the general and local aetiology of Periodontal Disease, treatment, instrumentation, &c., followed by the treatment of actual cases at the Dental Hospital.

XCI. DISEASES OF EAR, NOSE, AND THROAT.

Dr. H. V. Foxton.

Six lectures on the relationship between the conditions, diseases, and accidents occurring among the various structures and the mouth, as follows:—The Throat: Pharyngitis; Tonsilitis: foreign bodies; the Nose: Adenoids; Diphtheria and Vincent's Infection; the Antrum: Empyema and tumours; Ulceration: benign and malignant; Syphilis; Tuberculosis.

XCII. ETHICS AND JURISPRUDENCE.

Mr. J. W. Ward.

Eight lectures on the law and the practice of dentistry, covering the various Dental Acts of Queensland; Awards; employment and apprenticeship of mechanics; bookkeeping and economics in practice; professional ethics and conduct.

XCIII. ORTHODONTIA.

PART II.

Dr. B. L. Rosenstengel.

Amplification of lectures and demonstrations given in the third year; the aim and scope of orthodontic nomenclature; occlusion, its meaning and functions; the alveolar process, its structure and function; arch forms and their limitations; the aetiology of malocclusion, embracing the biological and hereditary factors involved; dento-facial principles in relation to occlusion; Angle's classification of malocclusion; principles of diagnosis and rules of treatment; applied mechanics in the movement of teeth; principles of dental anchorage, their applications; principles of inter-maxillary and occipital force; impression and model taking; case records; a comparison of the various systems and apparatus; appliance design; principles of appliance construction; principles of appliance operation; treatment and retention of cases according to their classes.

XCIV. CLINICAL DENTAL PATHOLOGY.

Mr. A. J. Hoole.

A series of fifteen lecture-demonstrations on clinical pathology, linking the lectures and demonstrations already given to clinical diagnosis.

TIME TABLES.

FACULTIES OF ARTS, LAW, AND COMMERCE—TIME TABLE OF LECTURES, 1936.

Day.	9 to 10.	10 to 11.	11 to 12.	12 to 1.	5 to 6.	6 to 7.	7 to 8.	8 to 9.
	DAY.				* EVENING. * [N.B.—Subject to (*a*) rearrangement and (*b*) sufficient enrolment.]			
Monday	Pure Math. I. (A and B). Greek II.	Greek I. App. Math. II. French II. Const. Hist. I.	English I. Polit. Sci. II.	Greek Literature and Art German I.	Roman Law Polit. Sci. II. Economics III. Econ. Hist. Pure Math. II.	Roman Law Const. Hist. II. Economics III. Econ. Hist. Taxation Law and Practice.	AcountancyI. Accountancy II Auditing.	Accountancy I. Accountancy II. Auditing.
Tuesday	App. Math. I. French I. Latin II.	History I. Pure Math. II. Philosophy IIA. (Ethics). Jurisprudence.	Latin I. English II. Const. Hist. II.	Philosophy I. (Psychology) History II. German II. Pub. Int. Law.	English I. (Arts) Economics I. S. & A. Math. English I. (Commerce)	English I. (Arts) English I. (Commerce)	Pure Math. I. Education Mercantile Law Trustees Law.	App. Math. I. Education
Wednesday	Pure Math. I. (A). Latin II.	Philosophy II. (Psychology). Latin II.	History I. Greek I. French II.	English I. Philosophy IIA. (Metaphysics). German I.	History I. Economics II.	History I. Economics II.	Philosophy I. (Psychology) Philosophy IIA. (Ethics)	Philosophy I. (Logic). Philosophy IIA. (Metaphysics)
Thursday	App. Math. I. French I. Polit. Sci. I. Latin II.	Latin I. Pure Math. II. History II.	Philosophy I. (Logic). English II. Greek Literature and Art	Philosophy II. (Logic).	Latin I. History II. S. & A. Math. Const. Law Economics I.	Latin I. History II. Music (Counterpoint). C. and I. Organisation Taxation Law and Practice.	Pure Math. I. Bankruptcy Law.	App. Math. I. Company Law.
Friday	Pure Math. I. (A and B). Greek II.	Greek I. English I. App. Math. II. Jurisprudence.	Latin I.	English II. German II. Pub. Int. Law.	Econ. Geog. Pure Math. II.	French I. Music (History of Music).	French I. Music. (Harmony).	

Statistical and Actuarial Mathematics, and Statistics and Statistical Method, are given, subject to sufficient enrolment, at times to be arranged.

For Science subjects see Time Tables, Faculty of Science.

Science Subjects—The first-year Science Subjects for 1936 are Chemistry I. and Geology I.

NOTE: (*a*) The following subjects will be offered in 1937—English II. and French II.

(*b*) Philosophy II. and Philosophy IIA. are taken as evening Subjects in alternate years. In 1937 Philosophy II (Logic and Psychology) will be offered.

(*c*) Applied Mathematics II. will be available to evening students in 1936 and thereafter in alternate years at times to be arranged.

FACULTY OF SCIENCE.—TIME TABLE, 1936.

9 to 10.	10 to 11.	11 to 12.	12 to 1.	2 to 3.	3 to 4.	4 to 5.
MONDAY—						
Pure Maths. I. Chem. II. Chem. III. A Chem. III. B	Physics I. App. Maths. II. *Geology II.* *Chem. III. B* *Geology III.*	Biology I. *Geology II.* *Chem. III. B* *Geology III.*	Chem. I. Physics III. Geology II. *Chem. III. B* *Geology III.*	Botany III. Zoology III. *Physics I. B* *Chem. I. A* *Chem. II.* *Physics III.*	*Botany III.* *Zoology III.* *Physics I. B* *Chem. I. A* *Chem. II.* *Physics III.*	*Botany III.* *Zoology III.* *Physics I. B* *Chem. II.* *Physics III.*
TUESDAY—						
App. Maths. I. Botany II. Physics II. Botany III. Zoology III. Chem. III. A *Zoology II.*	Geology I. Pure Maths. II. *Chem. I. B* *Geology III.* *Physics III.*	*Geology I.* *Geology II.* *Chem. I. B* *Geology III.* *Physics III.*	*Geology I.* *Geology II.* Chem. III. B *Geology III.* *Physics III.*	Zoology II. *Biology I.* *Botany II.* *Physics II.* *Chem. III. A* *Chem. III. B*	*Zoology II.* *Biology I.* *Botany II.* *Physics II.* *Chem. III. A* *Chem. III. B*	*Zoology II.* Biology I. *Botany II.* *Physics II.* *Chem. III. A* *Chem. III. B*
WEDNESDAY—						
Pure Maths. I. (Optional) Geology I. Chem. II. Geology III.	Physics I. *Chem. II.* *Geology III.*	Biology I. *Chem. II.* *Geology III.*	Chem. I. Botany II. Zoology II. Physics III. *Geology III.*			

FACULTY OF SCIENCE—*continued.*

9 to 10.	10 to 11.	11 to 12.	12 to 1.	2 to 3.	3 to 4.	4 to 5.
THURSDAY—						
App. Maths. I. Physics II. Chem. III. A Chem. III. B	Geology I. Pure Maths. II. Geology III. *Chem. III. B* *Physics III.*	*Chem. I. A* *Geology II.* *Chem. III. B* *Physics III.*	*Chem. I. A* Geology II. Botany III. Zoology III. *Physics III.*	Botany II. Zoology II. *Biology I.* *Physics II.* *Botany III.* *Zoology III.* *Chem. III. A*	*Botany II.* *Zoology II.* *Biology I.* *Physics II.* *Botany III.* *Zoology III.* *Chem. III. A*	*Botany II.* *Zoology II.* *Physics II.* *Botany III.* *Zoology III.* *Chem. III. A*
FRIDAY—						
Pure Maths. I. Chem. II. Geology III. Chem. III. B	Physics I. App. Maths. II. *Geology II.* *Chem. III. A* *Chem. III. B*	Physics II. *Geology I.* *Geology II.* *Chem. III. A* *Chem. III. B*	Chem. I. Physics III. Geology II. *Chem. III. A* *Chem. III. B*	*Physics I. A* *Chem. I. B* *Chem. II.* (2nd and 3rd terms) *Botany II.* (1st term) *Zoology II.* (1st term) *Zoology III.* *Botany III.*	*Physics I. A* *Chem. I. B* *Chem. II.* (2nd and 3rd terms) *Botany II.* (1st term) *Zoology II.* (1st term) *Zoology III.* *Botany III.*	*Physics I. A* *Chem. II.* (2nd and 3rd terms) *Botany III.*
SATURDAY—						
Botany II. (9 to 11) *Chem. II.* (9 to 12): (1st term) *Zoology II.* (9 to 11): 2nd and 3rd terms)						

Note.—Practical work periods are indicated by italics. *Zoology II.*—Extra hour to be arranged. *Zoology III.*—Extra two hours to be arranged.

PERMANENT EVENING TIME TABLE.

FACULTY OF SCIENCE.

Subject to the conditions that an Evening Class may not be formed in any Part I. subject in which there is not an enrolment of at least four students, or in any Part II. subject in which there is not an enrolment of at least two students, the following Evening Time-Table will be observed by the Faculty of Science until otherwise determined :—

(*a*) FOR 1936, AND EVERY ALTERNATE YEAR THEREAFTER.

Day.	5 to 6.	7 to 8.	8 to 9.	9 to 10.
Monday	Chemistry I. Pure Math. II.	*Chemistry I.*	*Chemistry I.*	
Tuesday	Geology I. Physics II.	Pure Math. I.	App. Math. I. *Geology I.*	*Geology I.*
Wednesday ..	Chemistry I. Physics II.	Geology I. *Physics II.*	*Geology I.* *Physics II.*	*Geology I.* *Physics II.*
Thursday	Geology I. Physics II.	Pure Math. I.	App. Math. I.	
Friday	Chemistry I. Pure Math. II.			
Saturday— 9 to 11 .. 9 to 12 ..	*Chemistry I.* *Physics II.*			

(*b*) FOR 1937, AND EVERY ALTERNATE YEAR THEREAFTER.

Day.	5 to 6.	7 to 8.	8 to 9.	9 to 10.
Monday	Physics I. Chemistry II.	*Chemistry II.*	*Chemistry II.*	*Chemistry II.*
Tuesday	Pure Math. II.	Pure Math. I.	App. Math. I.	
Wednesday ..	Physics I. Chemistry II.			
Thursday	Pure Math. II.	Pure Math. I.	App. Math. I.	
Friday	Physics I. Chemistry II.	*Chemistry II.*	*Chemistry II.*	*Chemistry II.*
Saturday (9 to 12)	*Physics I.* *Chemistry II.*			

Classes in Mathematics, III. Chemistry III., Physics III., and Statistical and Actuarial Mathematics will be arranged when necessary. Classes in Applied Mathematics II. and Geology II. will be offered in 1936 and subsequent alternate years.

FACULTY OF ENGINEERING.—TIME TABLE, 1935.

N.B. Modifications for the separate terms are indicated in footnotes.

Day.	9 to 10.	10 to 11.	11 to 12.	12 to 1.	2 to 5.
MONDAY—					
1st Year All	Pure Mathematics I.	Physics I.	Design I.	Chemistry I.	Chemistry I.
2nd Year All	Chemistry II.	Applied Mathematics II.	*Applied Mechanics*	*Applied Mechanics*	*Heat Engines II.*
3rd Year Civil	*Design III.*	*Design III.*	*Design III.*		
3rd Year Mechanical and Electrical		Heat Engines III.	Electrical Engineering II.	Hydraulics I.	*Hydraulics or Materials Testing* (alternate weeks)
3rd Year Mining	*Geology*	*Geology*	*Geology*		
3rd Year Chemical ..	Chemistry II.	*Design III.*	*Design III.*		
4th Year Civil ..	Specialist's Lecture	*Design IV.*	Seminar.	Seminar.	*Design IV.*
4th Year Mechanical and Electrical		*Electrical or Design IV.*	*Electrical or Design IV.*	*Electrical or Design IV.*	*Electrical or Design IV.*
4th Year Chemical ..		Heat Engines III. (14)	*Chemistry*	*Chemistry*	*Chemistry*
TUESDAY—					
1st Year All	Applied Mathematics I.	Geology I.	*Geology I.*	*Geology I.*	*Engineering Drawing I.*
2nd Year All	Physics II.	Pure Mathematics II.	Heat Engines II.	..	*Design II.* (7)
3rd Year Civil			Mathematics III. (13)		*Engineering Chemistry* (9)
3rd Year Mechanical and Electrical	Civil Engineering I.	Electrical Engineering I.		*Journals*	Engineering Chemistry (15)
3rd Year Mining			*Journals*	Geology (Petrology) (13)	*Chemistry*
3rd Year Chemical ..		*Design III.*	*Design III.*	*Journals*	
4th Year Civil	Special Lecture	..			*Design IV.*
4th Year Mechanical and Electrical	*Design IV.*	*Electrical or Design IV.*	Seminar	Seminar	*Electrical or Design IV.*
4th Year Chemical ..	Chemistry	Electrical Engineering I.			*Chemistry*

FACULTY OF ENGINEERING—*continued.*

Day.	9 to 10.	10 to 11.	11 to 12	12 to 1.	2 to 5.
WEDNESDAY—					
1st Year All	Geology I	Physics I.	Technical Drawing (10)	Chemistry I.	
2nd Year All	*Design II.*	*Design II.*	*Design II.*	Applied Mechanics	
3rd Year Civil	*Design III.*	*Design III.*	*Design III.*	Civil Engineering I. (4)	
3rd Year Mechanical and Electrical 3rd Year Mining					
3rd Year Chemical ..	Chemistry II.				
4th Year Civil	Building Construction and Architecture	*Design IV.*	*Design IV*	*Design IV.*	
4th Year Mechanical and Electrical		Electrical III.	Seminar	Seminar	
4th Year Chemical ..		*Design IV.*	*Design IV.*	*Design IV.*	
THURSDAY—					
1st Year All	Applied Mathematics I.	Geology I.	*Chemistry I.*	*Chemistry I.*	*Technical Drawing*
2nd Year All	Physics II.	Pure Mathematics II.	Heat Engines II. (11)	..	*Physics II.*
3rd Year Civil	Surveying I.	*Surveying I.*	*Surveying I.*	*Surveying I.*	*Surveying I.*
3rd Year Mechanical and Electrical	Surveying I. (9)	Heat Engines III.	*Design III.*	*Design III.*	*Surveying I.* (9)
3rd Year Mining 3rd Year Chemical ..	Surveying I. Surveying I. (12)	*Geology* *Chemistry*	*Geology* *Chemistry*	Geology *Chemistry*	*Surveying I.* (12)
4th Year Civil	*Surveying II.*	Surveying II.	*Surveying II.*	*Surveying II.*	*Surveying II.*
4th Year Mechanical and Electrical	*Heat Engines or Design IV.*	*Heat Engines or Design IV.*	*Heat Engines or Design IV.*	*Electrical III.* (16)	*Heat Engines or Design IV.*
4th Year Chemical ..	Chemistry	Heat Engines III.	..	Economic Geology	*Chemistry*

FACULTY OF ENGINEERING—*continued.*

Day.	9 to 10.	10 to 11.	11 to 12.	12 to 1.	2 to 5.
FRIDAY—					
1st Year All	Pure Mathematics I.	Physics I.	*Geology I.*	Chemistry I.	*Physics I.*
2nd Year All	Chemistry II.	Applied Mathematics II.	..	Applied Mechanics (11)	*Design II.* (5)
3rd Year Civil	Civil Engineering I.	*Electrical Lab.* (9)	*Electrical Lab.* (9)	*Electrical Lab.* (8) (9)	*Design III.* (2)
3rd Year Mechanical and Electrical				*Electrical Lab.* (9)	*Heat Engines* (17)
3rd Year Mining ..		*Design III.* (2)	*Design III.* (2)	Geology (Petrology) 12	*Electrical Lab.* (18)
3rd Year Chemical ..		*Design III.* (2)	*Design III.* (12)	*Design III.* (12)	*Chemistry*
4th Year Civil	*Design IV.*	*Design IV.*	Seminar.	Seminar.	*General* (1)
4th Year Mechanical and Electrical	Electrical III.	*Journals*	*Journals*	*Journals*	
4th Year Chemical ..	..	*Electrical Lab.*	*Electrical Lab.*	*Electrical Lab.*	*Heat Engines* (12)
SATURDAY—					
1st Year All	*Fitting and Machining* (3)	*Fitting and Machining* (3)	*Fitting and Machining* (3)		
2nd Year All	*Chemistry II.* (6)	*Chemistry II.* (6)	*Chemistry II.* (6)		
3rd Year Civil	Surveying I.	*Design III.*	*Design III.*		
3rd Year Mechanical and Electrical	Surveying I. (9)				
3rd Year Mining ..					
3rd Year Chemical ..					
4th Year Civil	*Design IV.*	*Design IV.*	*Design IV.*		
4th Year Mechanical and Electrical	*Fitting and Machining*	*Fitting and Machining*	*Fitting and Machining*		
4th Year Chemical ..	*Design IV.*	*Design IV.*	*Design IV.*		

NOTE—
(1) 1st Term Materials Testing
(2) 1st Term Heat Engines Lab.
(3) 1st Term Drawing I.
(4) 1st Term Design III.
(5) 1st Term Chemistry
(6) 1st Term General
(7) 2nd Term Physics
(8) 2nd Term Geology
(9) 3rd Term Design III. (Mechanical).
(10) 3rd Term Heat Engines I.
(11) 3rd Term General
(12) 3rd Term Chemistry Lab.
(13) 3rd Term Journals
(14) Chemistry Lab. for exempted periods.
(16) Alternate weeks.
(17) 1st Term Design III. (Mechanical)
(18) 3rd Term Design III.

FACULTY OF AGRICULTURE—TIME TABLE, 1934.

Day.	9 to 10.	10 to 11.	11 to 12.	12 to 1.	2 to 5.
MONDAY—					
1st Year ..	Technical Drawing Pure Mathematics I.	Physics I.	Biology I.	Chemistry I.	*Chemistry I.* (2-4)
2nd Year ..	*Agricultural Chemistry*	*Agricultural Chemistry*	*Agricultural Chemistry*	Agricultural Geology	*Agricultural Geology*
4th Year ..	Agricultural Chemistry	*Agricultural Chemistry*	*Agricultural Chemistry*	*Agricultural Chemistry*	*Botany III.* (2-4), (1st and 2nd terms)
TUESDAY—					
1st Year ..	..	Geology I.	*Geology I.*	*Geology I.*	Biology I. (3-5 practical)
2nd Year ..	*Botany II.*	*Entomology*	*Entomology*	*Entomology*	*Plant Pathology* (1st term) *Botany II.* (2nd and 3rd terms)
4th Year ..	Botany III. (1st and 2nd terms)	Botany III. (1st and 2nd terms)	*Botany III.* (*Systematics*) (1st and 2nd terms)	Meteorology (1st term)	*Parasitology* (1st and 2nd terms)
WEDNESDAY—					
1st Year ..	Geology I.	Physics I.	Biology I.	Chemistry I.	
2nd Year ..	Plant Pathology	*Plant Pathology*	*Plant Pathology*	*Entomology* (1st term) Botany II. (2nd and 3rd terms)	
4th Year ..	Economics	Meteorology	Agricultural Chemistry	Principles of Agriculture (1st term)	
THURSDAY—					
1st Year ..	..	Geology I.	*Chemistry I.*	*Chemistry I.*	Biology I. (3-5 practical)
2nd Year ..	*Entomology*	*Entomology*	Entomology	Agricultural Chemistry	Botany II. (practical 3-5)
4th Year ..	Agricultural Chemistry	..	..	Botany III. (1st and 2nd terms)	*Botany III.* (1st and 2nd terms)
FRIDAY—					
1st Year ..	Pure Mathematics I.	Physics I.	*Geology I.*	Chemistry I.	*Physics I.*
2nd Year ..	Plant Pathology	Entomology	Agricultural Chemistry	Agricultural Geology	*Plant Pathology*
4th Year ..	..	..	..	..	*Botany III.* (1st and 2nd terms) Economics (5 p.m.)
SATURDAY (9-12)—					
1st Year ..	*Technical Drawing*	*Technical Drawing*	*Technical Drawing*		
2nd Year ..	*Agricultural Chemistry*	*Agricultural Chemistry*	*Agricultural Chemistry*		
4th Year ..	*Agricultural Chemistry*	*Agricultural Chemistry*	*Agricultural Chemistry*		

ANNUAL EXAMINATIONS.

PARTIALLY FIXED TIME-TABLE.

DAY OF WEEK.	MORNING.	AFTERNOON.
Friday (in tenth week of third term)	English I. — First Paper English II. — First Paper	English I. — Second Paper English II. — Second Paper
Saturday (in tenth week of third term)	English I. — Third Paper (Essay)	..
Monday (*i.e.* forty-fifth Monday of year)	Philosophy I.—First Paper	Philosophy I.—Second Paper
	Philospohy II.—First Paper	Philosophy II.—Second Paper
	Chemistry I.—First Paper	Chemistry I.—Second Paper
Tuesday	Latin I.—First Paper	Latin I. — Second Paper
	Latin II. — First Paper	Latin II. — Second Paper
	Physics I. — First Paper	Physics I. — Second Paper
Wednesday	Pure Mathematics I. Pure Mathematics II. —First Paper	Geology I. Pure Mathematics II. —Second Paper
Thursday	History I. — First Paper	History I. — Second Paper
	History II. — First Paper	History II. — Second Paper
	Biology I. — First Paper	Biology I. — Second Paper
Friday	French I. — First Paper	French I. — Second Paper
	French II. — First Paper	French II. — Second Paper

BIBLIOGRAPHICAL RECORD, 1935.

(I.) Official Publications.

(1) Calendar of the University of Queensland for the Year 1935, Part II. David Whyte, Government Printer, Brisbane. 8vo. Annual.

(2) Manual of Public Examinations of the University of Queensland for the Years 1935-36. David Whyte Government Printer. Royal 8vo. Annual.

(II.) Publications of University Officers.

HISTORY.

An Account of the University of Queensland during its First Twenty-five Years, 1910-1935. Edited by W. M. Kyle, H. J. G. Hines, S. Castlehow, and S. G. Lusby. Articles by J. L. Michie, H. Alcock, J. D. Story, and W. M. L'Estrange. Published by Authority of the Senate, 1935.

LAW.

F. W. S. CUMBRAE-STEWART, K.C., D.C.L., Garrick Professor of Law—

(1) The Principles of the Law of Compensation.—A lecture delivered before the Institution of Engineers (Australia), Brisbane Division, on 26th October, 1934.

(2) The Building Contract.—A lecture delivered before the Royal Australian Institute of Architects, Queensland Chapter, on 28th June, 1935.

EDUCATION.

B. H. MOLESWORTH, M.A., Director of Workers' Tutorial Classes and Lecturer in Economic History—

Adult Education in America and England. Melbourne University Press, p. 72.

GEOLOGY AND MINERALOGY.

W. H. BRYAN M.C., D.Sc., Lecturer in Geology—

"Correlation of Carboniferous and Permian Rocks of Queensland." A.N.Z.A.A.S., vol. xxii., 1935, p. 455.

W. H. BRYAN, M.C., D.Sc., Lecturer in Geology, in joint authorship with A. K. DENMEAD, M.Sc.—

"Report on Queensland to the Committee on the Structural and Land Forms of Australia and New Zealand." A.N.Z.A.A.S., vol. xxii., 1935, p. 463.

CHEMISTRY.

T. G. H. JONES, D.Sc., A.A.C.I., Lecturer in Chemistry—

Essential Oils from the Queensland Flora, Part VI., *Eremocitrus glauca*. (R.S.Q., 1935, with L. F. Hitchcock, M.Sc.)

Essential Oils from the Queensland Flora, Part VII., *Melaleuca pubescens*. (R.S.Q., 1935, with F. N. Lahey, B.Sc.)

Essential Oils from the Queensland Flora, Part VIII. The Identity of Melaleucol with Nerolidol. (R.S.Q., 1935, with J. M. Harvey, M.Sc.)

BIOLOGY.

D. A. HERBERT, D.Sc., Lecturer in Biology, and L. J. LYNCH, B.Sc.Agr.—

The Relative Penetrability of Various Tissues of the Orange and the Banana to Ethylene.

[Proc. Roy. Soc. Qld., xlvi., 72-79, 1935.]

D. A. HERBERT, D.Sc.—

The Climatic Sifting of Australian Vegetation. Presidential Address to Botany Section, Australian and New Zealand Association for the Advancement of Science.

[Rept. A.N.Z.A.A.S., xxii., pp. 349-370, 1935.]

AMENDMENT OF STATUTE.

(*a*) Amendment of the Statute relating to the Faculties appearing on page 31 of Part I. of the University Calendar to provide for the inclusion of (*h*) Medicine, and (*i*) Veterinary Science.

(*b*) Substitution for paragraph 12, on page 34 of Part I. of the Calendar, of the following:—

> The Senate shall be the authority to grant admission ad eundum gradum of graduates of other approved Universities to the following Degrees:—
>
> Bachelor of Medicine;
> Doctor of Medicine;
> Bachelor of Surgery;
> Master of Surgery.

STATUTE RELATING TO THE DEGREE OF BACHELOR OF SURGERY.

Candidates for the Degree of Bachelor of Surgery shall be matriculated students of the Faculty of Medicine; and shall attend lectures, carry out laboratory and practical work, satisfactorily complete all attendances at hospitals as prescribed, and pass examinations comprised in a course of studies extending over a period of not less than five (5) calendar years and five (5) calendar months.

STATUTE RELATING TO THE DEGREE OF BACHELOR OF MEDICINE.

Candidates for the Degree of Bachelor of Medicine shall be matriculated students of the Faculty of Medicine; and shall attend lectures, carry out laboratory and practical work, satisfactorily complete all attendances at hospital as prescribed, and pass examinations comprised in a course of studies extending over a period of not less than five (5) calendar years and five (5) calendar months.

FACULTY OF MEDICINE.

Pending the arrival of the Professors and Lecturers about to be appointed, the Senate has constituted the Faculty of Medicine with the membership listed hereunder:—

The Vice-Chancellor (Dr. W. N. Robertson).

The Professor of Biology.

The Professor of Physics.

The Professor of Chemistry.

The Chairman of the Brisbane and South Coast Hospitals Board.

The Medical Superintendent of the Brisbane Hospital.

The Director-General of Health and Medical Services.

The Chairman of the Advisory Board of the Honorary Staff of the Brisbane Hospital.

RULES FOR MATRICULATION—FACULTY OF MEDICINE.

Until otherwise provided, any candidate who has qualified for admission as a matriculated student of the Faculty of Science, or of Agriculture, or of Engineering, and has obtained credit in the University Public Examinations in Latin at a standard not lower than that of Junior Public Examination, shall be deemed to have qualified for matriculation in the Faculty of Medicine. In the case of students entering on the Medical Course prior to March, 1940, Junior Latin may be taken at any time before entering on the Third Year of their Medical Course.

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY—SCHEME OF STUDY.

Suggested Curriculum.

First Year.

Physics;
Chemistry (Inorganic and Organic);
Botany } Biology;
Zoology }
Introductory Human Anatomy.

Second Year.

Anatomy, including Surface Anatomy (descriptive and practical);

Physiology (including Histology, theory and practical);

Introductory Pharmacology;

Surgical Handicraft (bandaging, splinting);

Clinical Methods;

Male Nursing.

Third Year.

Anatomy (descriptive and practical), including Embryology;

Pathology (including Clinical Physiology);

Bacteriology and Parasitology;

Pharmacology and Therapeutics;

Systematic Medicine;

*Clinical Medicine;

Systematic Surgery;

*Clinical Surgery;

Vaccination;

Physiotherapy.

* Minor medical and surgical work at Out-Patients.

Fourth Year.

Pharmacology and Therapeutics;

Systematic Medicine;

Clinical Medicine;

Systematic Surgery;

Clinical Surgery;

Tropical Diseases;

Acute Infectious Fevers;

Psychiatry;

General Medical Psychology.

Every candidate shall also, throughout the course in Clinical Surgery, attend in the Casualty Department of the Hospital and perform Out-Patient Dressings, and such other work as is prescribed.

Fifth Year.

Public Health;
Diseases of Children;
Obstetrics, including Clinical Obstetrics;
Gynaecology, including Clinical Gynaecology;
Forensic Medicine and Toxicology;
Diseases of the Ear, Nose, and Throat;
Diseases of the Skin;
Practical Anaesthetics (at least 12 anaesthetics);
Systematic Surgery;
Diseases of the Eye;
Clinical Psychiatry;
Medical Ethics.

Every candidate shall also, throughout the course in Clinical Surgery, attend in the Casualty Department of the Hospital and perform Out-Patient Dressings, and such other work as is prescribed. This work shall include three months' obstetrical clerking with such residential practical work as is prescribed, and personal attendance on at least twenty (20) confinements.

Sixth Year.

Clinical Medicine;
Clinical Surgery;
Radiology;
Venereal Diseases;
Surgical Applied Anatomy and Operative Surgery;
Human Genetics and Biometrics.

Every candidate shall also, throughout the course in Clinical Surgery, attend in the Casualty Department of the Hospital and perform Out-Patient Dressings, and such other work as is prescribed

STATUTE RELATING TO THE DEGREE OF BACHELOR OF VETERINARY SCIENCE.

Candidates for the Degree of Bachelor of Veterinary Science shall be matriculated students of the Faculty of Veterinary Science; and shall attend lectures, carry out laboratory and practical work as prescribed, and pass examinations comprised in a course of study extending over not less than five (5) academical years.

FACULTY OF VETERINARY SCIENCE.

Pending the appointment of the Professor of Veterinary Science and Lecturers within the Factulty, the Senate has constituted the Faculty of Veterinary Science with the membership listed hereunder:—

The Professor of Biology;
The Professor of Chemistry;
The Professor of Physics;
The Professor of Agriculture;
The Lecturer in Biochemistry;
The Director of the State Government Health Stations;
The Under Secretary for Agriculture and Stock.

RULES FOR MATRICULATION—FACULTY OF VETERINARY SCIENCE.

Any candidate who has qualified for admission as a matriculated student of the Faculty of Science, or of Agriculture, or of Medicine, or of Engineering, shall be deemed to have qualified for matriculation in the Faculty of Veterinary Science.

RULES—BACHELOR OF VETERINARY SCIENCE —SCHEME OF STUDY.

Suggested Curriculum.

First Year.

During the first year of their course, candidates shall pass in the following subjects:—

Physics;
Chemistry (Inorganic and Organic);
Botany } Biology;
Zoology }
Veterinary Osteology.

Second Year.

Candidates who have completed their first year may proceed to the second year of their course. Such candidates shall pass in the following subjects:—

General Biochemistry;
General Physiology;
Veterinary Anatomy;
Histology;
Embryology and Teratology;
Veterinary Botany.

Third Year.

Veterinary Anatomy;
Topographic Anatomy;
Special Veterinary Physiology;
Special Biochemistry;
Bacteriology;
Pharmacology and Therapeutics;
Veterinary Entomology;
Animal Management;
Zootechnics;
Pathological Physiology;
General Pathology;
Post Mortems.

Fourth and Fifth Years.

Helminthology;
Special Pathology;
Post Mortems;
General Hygiene;
Infectious Diseases (Protozoal and Virus);
Infectious Diseases (Bacterial);
Veterinary Medicine;
Surgery;
Obstetrics;
Toxicology;
State Veterinary Medicine and Veterinary Jurisprudence;
Municipal Hygiene.

FACULTY OF LAW—LL.B. DEGREE.

(For second-year subjects, see pages 35 and 36.)

Third Year (1936).

EQUITY.

The Course will deal with Equity and the Equitable jurisdiction conferred by the Supreme Court of Queensland, Section 22 as affected by the Judicature Act 1876. It will include an historical survey of the Court of Chancery and

the development of the Equitable jurisdiction, equitable interests in property, the concurrent and the auxiliary jurisdiction of equity.

Books recommended.

Maitland: Equity.
Strahan: Digest of Equity (5th Edition).
Ashburner: Principles of Equity (2nd Edition); or
Snell: Principles of Equity (18th Edition).
White & Tudor: Leading Cases in Equity.

CRIMINAL LAW.

The Course will cover the Criminal Law of Queensland as embodied in the Criminal Code and the later legislation.

Books recommended.

Kenny: Outlines of Criminal Law.
Kenny: Cases in Criminal Law.

REAL PROPERTY AND CONVEYANCING.

The Course will cover the history of the Law of Real property with reference to the principal Statutory amendments of the Law in England previous to 1828, the subsequent legislation affecting land and interests in land in Queensland including the Real Property Act 1861-1877.

Books recommended.

Williams: Real property (22nd Edition).
Topham: Real property.
Strahan: Concise introduction to Conveyancing.
Hogg: Conveyancing and Property Law.
Kerr: The Australian Land Titles (Torrens) system.

PERSONAL PROPERTY.

The principles of the English Law of Chattel's personal choses in action as affected and extended by the Statute Law of Queensland.

Books recommended.

Williams: Personal Property.
Chalmers: Sale of Goods. October (11th Edition).
Chalmers: Digest of the Law of Bills of Sale Exchange.
Chalmers: Promissory Notes, Cheques, and Negotiable Securities.

CONTRACTS.

An account of the Law in force in Queensland with respect to Contracts including the Law of Sale and Bills of Exchange.

Books recommended.

Anson: Principles of the English Law of Contracts.
Miles & Brierley: Cases in the Law of Contract.

COMPANY LAW.

The Law of Queensland with respect to trading companies as contained chiefly in the Companies Act of 1931.

Books recommended.

Charlesworth: Principles of Company Law.
Buckley: Law of Practice under Company Act (11th Edition).

TORTS.

The Law of Queensland with respect to Civil wrongs.

Books recommended.

Salmon: Torts.
Pollock: Torts.

NOTE:—For the first term the above courses will consist of one lecture per subject per week, and the number of lectures to be delivered during the 2nd and 3rd term will be as determined by the Faculty.

FACULTY OF COMMERCE, 1936.

ENGLISH I.

1. General Outline of the History of English Literature from the Elizabethan Period.
2. Special Authors.
3. The growth of Modern English.

Text Books.

Hudson: Outline History of English Literature.
L. Pearsall Smith: The English Language.

Set Books.

Shakespeare: Macbeth.
Tennyson: In Memoriam.
Carlyle: Past and Present.

For General Reading.

Brander Matthews: The Chief British Dramatists.
Poems Old and New: (Macmillan).
Modern English Prose: (Macmillan).
Charles Reade: It is never too late to mend.
Thackeray: Vanity Fair.
The High Road of Australian Verse: (Oxford).

DAVID WHYTE, Government Printer, Brisbane.